

SMOKE SIGNALS

For Radio Amateurs • By Radio Amateurs

Published Monthly Since 1969 • Our 28th Year

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ATV repeater coming to Baraboo area

Location will provide wide area coverage in several counties

By Jim Paul, N9LKY

On Thursday September 17, 1997 a group of amateur radio operators interested in amateur television (ATV) met at the Baraboo Civic Center to discuss plans to construct an ATV repeater. The project started out several years ago as a way to get WJ9H Tom Weeden's live weather radar from Madison over the Baraboo bluffs into Sauk county.

This summer, Brad Pointon of Pointon Communications in Baraboo, constructed a new tower on the bluffs and offered the amateur community a spot on the tower for ATV. The coverage from this tower should cover most of Dane, eastern Sauk and western Columbia counties, allowing coverage from both sides of the Baraboo Bluffs.

About 14 hams from Dane and Sauk counties attended the meeting, which began with Brad Pointon describing his 400 foot tower and equipment building. He also outlined his requirements for equipment to be placed on his tower. More information on his tower can be found at his web site at www.pointon.com.

Next discussion centered on the technical details of the ATV repeater. Everyone agreed that it was desirable to have the output frequency on one of the "cable TV" channels to maximize the number of potential users. This way, users with only cable ready TVs or VCRs and beam antennas might be able to receive the transmissions. It was thought that 421.25 MHz output and 434 MHz input and vertical polarization would be a good starting point, with other input frequencies in the 13 and 23 cm bands possible at a later date.

The merits of a one antenna and duplexer system versus a two antenna system inband repeater setup were discussed. The consensus was that the one antenna system would be preferred for several reasons including minimizing tower wind loading, minimizing construction and feedline costs, and minimizing maintainance. The idea of using a transmitter that could also modulate the video carrier with audio was also discussed. This would let people using a scanner, HT or mobile rig monitor the repeater audio. It also might form the basis of a crossband

Quarter Century Wireless Association/Wisconsin Chapter 55 Confers Honors

The QCWA's Wisconsin Chapter 55 recognized its long-time hams with certificates at its June meeting. Holding their awards are, standing, left to right, Duane Haas, W9BCV; George Toppe, W9-QFL; Harvey Bahlke, W9HNX; Erv Froelich, W9RZW; Bill Haase, W9-FPA; and Les Peterson, W9YCV. Sitting, George Halper, W9SUF; Verne Teske, W9RYA; and Jackie Toppe, W9AYX, received QCWA Anniversary and Century Awards.

Photo courtesy Les Peterson/W9YCV



audio repeater while at the same time providing ATV.

Several people attending volunteered to donate equipment and/or money towards the project including a power amp and omni directional antenna. It was thought that the major expenses would be for the feedline, rigging and duplexer. Possible sources of equipment and funding were discussed with several members following up suggested leads. Possible uses for the ATV repeater system discussed included: "live" weather radar; "live" damage reports following emergencies; coverage of public service events such as parades, marathons and circus train; NASA Select coverage to schools; and general ATV repeater activity.

It was suggested that the group would call it self BATS - Badgerland Amateur Television Society. There is a mailing list that serves as the basic means of communication between members. To join the list, send an email to: usr_mgr@shopstop.net with the body of the message containing just: SUBSCRIBE bluffatv EMAIL@ADDRESS, where EMAIL@ADDRESS is your email address. You will receive back information on using the list, which will include directions on mailing to all members of the list, and how to retrieve files of past emails of the list posted on the server.

Information on the time and place of the next meeting, possibly at the tower site for ATV range tests, will be posted on the bluffatv mailing list and on packet. All interested hams are invited to join in. □

FCC issues gate 3 call signs!

Get ready to remember another batch of new call signs. Six weeks to the day after the opening of Gate 3, the FCC began processing vanity call sign applications. FCC personnel in Gettysburg, Pennsylvania, had spent much of the intervening time clearing out a backlog of vanity applications filed prior to the Gate 3 opening and matching up payments with electronic applications. On Wednesday, September 17, the FCC issued some 500 to 600 vanity call signs to those who had filed applications on August 6, the opening day.

Applicants can check for new call signs at <http://www.arrl.org/fcc/fcld.html> or by using one of the other popular call sign databases.

Judging from the call signs turning up on the FCC database, some Advanced class hams took advantage of Gate 3 to obtain Group C call signs where the suffix comprised either a first name (we spotted

a Joe, a Don, a Ken, a Bob and a Gay, for example) or a set of initials. Perhaps apropos of his QTH, Gene Uliasz of Gun Barrel City, Texas, used Gate 3 to turn KC4WA into K5TNT.

Formerly KF6CG, Georgia A. Lawrence of Manhattan Beach, California, obtained K6GAL. Other applicants obtained new Group B call signs, sometimes trading one 2x2 in for another. For example, Karl Mortensen of Wakefield, Rhode Island, swapped KE1FK for KA1RL. Still others went for the snappy suffix. Charles Pharis of Kagel Cyn, California, turned in KK6NE for KA6USA. Michael Amaral of Walpole, Massachusetts, gave up W1IDP to obtain WA1AW. Along the same lines, Michael Esposito of Germantown, Tennessee, swapped WA2VXV for WA2AW. Yvonne Lane of Kingwood, Texas, gave up KF5MY for W5XYL.

Please turn to page 12

Nothing new from Milwaukee

As reported in BSSS, a new tower law becomes effective in Milwaukee on November 1. Although it fails to meet the test of federal preemption in PRB-1, unreasonable requirements will be placed in amateurs wanting to erect towers above a certain height. The law also includes provisions for "neighborhood approval" for ham towers, which other cities have tried, and lost lawsuits to hams because it is overly broad and hand lawmaking power directly to citizens. There appears to be a strong possibility that strong anti-amateur stances by some alders may have been due to confusion between CBers and radio amateurs, and also because of lack of understanding of reasons for RFI incidents; most RFI is due to manufacturers of home electronics, not amateur or any other service's transmitting equipment.

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WHAT'S HAPPENING

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Edited by Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901 • kebner@palacenet.net

Swapfests

and Other Social Events

SATURDAY, OCTOBER 25, 1997. Hamfest Minnesota and Computer Expo will take place at the St. Paul Civic Center, Kellogg & 7th St., 8:00 a.m. to 4:00 p.m. Contact: Hamfest Minnesota & Computer Expo, PO Box 5598, Hopkins, MN 55343, or call the Hamfest Minnesota Hot Line at (612) 535-0637. www.hamfestmn.org. (See full ad next month for additional information.)

SATURDAY, NOVEMBER 1, 1997. "6.91 Friendly Fest", sponsored by the Milwaukee Repeater Club, at the Waukesha County Expo Center Forum, Waukesha, WI. Contact: The Milwaukee Repeater Club, PO Box 2133, Milwaukee, WI or N9VBI, Burt, (414) 328-0535.

SUNDAY, NOVEMBER 2, 1997. Fox Cities ARC, Kaukauna, WI. Held at the Starlite Club, corners of Highway 55 and County Road JJ, North of Kaukauna. VE testing, food, refreshments, great deals. Contact: Chad Pennings, N9PRC, 1912 Russet Ct. Apt. #7, Appleton, WI 54914. (920) 993-0485. (See ad for additional information.)

SATURDAY & SUNDAY, NOVEMBER 15-16, 1997. Fort Wayne Hamfest at Allen County War Memorial Coliseum Exposition Center, For Wayne IN. Contact: ACARTS, PO Box 10342, Fort Wayne IN 46851. (219) 484-1314.

SUNDAY, JANUARY 11, 1998. 26th annual Midwinter Swapfest, sponsored by the West Allis Radio Amateurs Club, Waukesha County Expo Center Forum, Waukesha, WI. Contact: WARAC Swapfest, PO Box 1072, Milwaukee, WI 53201.

TUESDAY, FEBRUARY 24, 1998. Red Cedar Repeater Association Auction. Contact: Steve Hart, KA9OMC, E616 810th Ave., Knapp, WI 54749-9020. (715) 665-2374.

SUNDAY, MARCH 8, 1998. SEWFARS Swapfest, Waukesha County expo Center, Waukesha, WI. Contact: SEWFARS Inc., PO Box 102, Delafield, WI 53018, (414) 358-1003.

SUNDAY, MARCH 15, 1998. Tri County Hamfest 1998, Jefferson WI. Contact: TCARC, 213 Frederick St., Fort Atkinson, WI

53538. (920) 563-6381.

SUNDAY, APRIL 5, 1998. Madison Swapfest. John Q Hammons Trade Center. Contact: MARA, PO Box 8890, Madison, WI 53708-8890. (608) 245-8890.

SATURDAY, MAY 2, 1998. Ozaukee Radio Swapfest. Contact: Ozaukee Radio Club, W58 N985 Essex Drive. Cedarburg. WI 53012-1439.

SUNDAY, JUNE 7, 1998. Adams County Hamfest. Contact: Nick Segina, WB9YKK. (608) 339-9014.

SUNDAY, JUNE 7, 1998. 21st annual CWRA Swapfest, U.S. Army Reserve Center, Junction City, WI. Contact: John Feltz, WA9JN, 973 E First St., Junction City, WI 54443-9614. (715) 457-2506. e-mail: jfw9jn@tzn.net

SATURDAY, JULY 11, 1998. South Milwaukee Amateur Radio Club Swapfest, South Milwaukee, WI. (414) 762-3235.

See also the back page and flyer ads for additional information on many of these events. Let us know of your dates as soon as you know them. We will list them and perhaps help avoid conflicts with other events. As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.



CLUB MEETINGS

Due to space limitations we cannot always carry the full listing of Wisconsin and area club meetings. Please save the following listings for your future reference. We hope to have the full listing at least three times a year, and will carry any changes or additions between full listings.

ARROWHEAD RADIO AMATEUR CLUB, INC.
(Superior, WI)

the 9th of that month. This material is to be sent to the Editor.

Where to Send It

Address changes and corrections should be sent to Ken Ebner. Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebner. Club, swapfest, and Test Point information should be sent to Ken Ebner.

Swapfest ads should be sent to Jim Romelfanger NO LATER THAN EIGHT WEEKS BEFORE THE EVENT'S DATE.

Subscriptions should be sent, with check or money order, to Jim Decker.

Conditions for Reprinting or BBS Posting Material from Badger State Smoke Signals

Permission is hereby granted to reprint articles or posting articles on radio or telephone bulletin boards from *Badger State Smoke Signals*, providing credit is given to the original author, publication in which the article first appeared, and to *Badger State Smoke Signals*. **THIS CREDIT IS MANDATORY, AND NO MATERIAL MAY BE PRINTED OR POSTED UNLESS IT IS GIVEN.**

This newspaper is produced by volunteer Radio Amateurs, and is non-profit. This newspaper is mailed from Portage, WI 53901.

Badger State Smoke Signals is incorporated as a Wisconsin non-stock, non-profit organization.

Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

Badger State Smoke Signals

Amateur Radio Education and Information

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EDITORIAL BOARD: Ken Ebner, K9EN; Dave Knaus, WA9POV; Don Evenson, K9JYX; Jim Romelfanger, K9ZZ.

Subscriptions

1 year	(12 issues)	\$13.95
2 years	(24 issues - save \$1.95)	\$25.95
3 years	(36 issues - save \$3.90)	\$37.95

Special club package reduced rates are available. For information, contact Ken Ebner, K9EN.

When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1. The only exception is for participating clubs' minutes. Participating clubs are requested to send their material no later than FIVE DAYS after the club's meeting. For example, if a club meets on the 4th of the month, the material should be sent no later than

The monthly meeting of the ARAC is held on the second Tuesday of the month at the WITC Conference Center, 600 N. 21st Street, Superior, Wisconsin, at 7:30 p.m. Board meetings are held prior to the regular meeting.

BADGER AMATEUR RADIO SOCIETY
(W9YT - U. W. - MADISON)

Monthly while school in session - 2nd Tue. - 5:30 p.m. - B-265G, Electrical Engineering Bldg. For more information call (608) 262-1142.

CENTRAL WISCONSIN RADIO AMATEURS, LTD.
(STEVENS POINT)
Second Wed..

EAU CLAIRE AMATEUR RADIO CLUB
2nd Tue. - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams, guests welcome. Travelers welcome on wide area club repeater K9UXP. 146.31/91.

FALLS AMATEUR RADIO CLUB, INC
The Falls Amateur Radio Club, Inc. meets the last Wednesday of the month at the Bank One building in Germantown, WI at Pilgrim and Mequon Roads. The doors open at 7:00 p.m. and the meeting will begin at 7:30 p.m. !!GUESTS ARE WELCOME!!

FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)

First and third Tues - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave., room "C" downstairs. It is the next building west of the Hill Farms State Office building. The meetings start promptly at 7:30 pm.

FOX CITIES AMATEUR RADIO CLUB
Third Mon. - 7:00 p.m. - Madison Junior High School, 2020 South Carpenter Street, Appleton, WI. Info: Chad (414) 993-0485.

GREATER MILWAUKEE DX ASSOCIATION
Fourth Monday of the month at 7:30 p.m. Contact any GMDXA member or Gary Schwartz, K9GS, (414) 363-4439, garyk9gs@solaria.sol.net, K9GS@WA9KEC.WI.USA.NOAM. Packet cluster: NB9C, for meeting location.

GREEN BAY MIKE AND KEY CLUB
Second Thur. 7:30 pm - Media Services area of the J. M. Science Building at St. Norbert College in DePere.

GREEN FOX AMATEUR RADIO CLUB Third Mon. - 7:30 p.m. - Green Lake Town Hall, int. of county hwy. K and N.

KETTLE MORAINE RADIO AMATEURS
Second Fri., 7:30 p.m. at the Waukesha County Technical College, Campus Science Building, Room 102. Talk-in on the N9KS 147.39 repeater.

LAKESHORE RPTR. ASSN.
Last Tue., Jan., Apr., Jul., & Oct., 7:30 p.m. Red Cross Bldg., 4521 Taylor Ave., Racine, WI.

M & M AMATEUR RADIO CLUB
General meeting held second Thursday each month at 7:00 p.m. in cafeteria of BAMC, basement, Tenth Ave., Menominee, MI. All amateurs and guests are welcome. Use the 147.000+ repeater. Our net is Sunday at 7:00 p.m. on the repeater. Our address is P.O. Box 1082, Marinette, WI 54143.

MANITOWOC COUNTY RADIO AMATEURS
Directors Meeting: First Wed. Held at 6:30 p.m. in the basement, Manitowoc City Hall, 817 Franklin St., Manitowoc.

General meeting: Second Wed. Held at 7:30 p.m. at Associated Manitowoc Bank, corner of 10th and Franklin Streets.

MILWAUKEE RADIO AMATEURS CLUB
Last Thursday evening, Redemption Lutheran Church, 4057 North Mayfair Road, Wauwatosa 53222. Meetings begin at 7:30 p.m. 12 months of the year.

NORTHWOODS ARC (RHINELANDER WI)
Third Tue.. Doors open at 7:00 p.m. Meeting at 7:30 p.m. South Park School, Rhinelander, WI. Talk-in on 146.94/.34. All interested visitors to the Northwoods are welcomed.

OZAUKEE RADIO CLUB
Second Wed. - 7:30 p.m. - Grafton Multipurpose Senior Center.

QCWA - WISCONSIN CHAPTER #55
Contact Erwin Froelich, W9RZW, Treasurer, Rte 1 Box 177D, Pine River WI 54965. For information about meeting dates or joining QCWA Chapter #55. The Wisconsin Chapter holds Spring and Fall dinner meetings.

QCWA - SOUTHEAST WISCONSIN CHAPTER #162
Meets third Mon. monthly. 7:30 p.m., Around the Clock Restaurant, 3012 Rapids Drive, Racine.

The Test Point



Amateur Radio Examination Locations and Schedules in the Wisconsin Area

October 04, 1997	Ashwaubenon, WI
October 04, 1997	Hudson, WI
October 04, 1997	Oshkosh (Omro), WI
October 04, 1997	Racine, WI
October 04, 1997	St. Paul, MN
October 09, 1997	Apple Valley, MN
October 11, 1997	Blaine, MN
October 11, 1997	Eau Claire, WI
October 11, 1997	Madison, WI
October 11, 1997	Oak Creek, WI (MRAC)
October 15, 1997	Eden Prairie, MN
October 18, 1997	Cottage Grove, MN
October 18, 1997	Loves Park, IL
October 18, 1997	Milwaukee, WI (BE)
October 18, 1997	Redgranite, WI
October 24, 1997	St. Paul, MN
October 25, 1997	Bloomington, MN
October 25, 1997	Milwaukee, WI (MRAC)
October 25, 1997	Tomahawk, WI
November 01, 1997	Menomonee, WI
November 01, 1997	Wisconsin Dells, WI
November 01, 1997	Oshkosh (Omro), WI
November 01, 1997	Racine, WI
November 01, 1997	St. Paul, MN
November 02, 1997	Kaukauna, WI
November 06, 1997	Apple Valley, MN
November 08, 1997	Blaine, MN
November 08, 1997	Madison, WI
November 08, 1997	Oak Creek, WI (MRAC)
November 15, 1997	Cottage Grove, MN
November 15, 1997	Loves Park, IL
November 15, 1997	Milwaukee, WI (BE)
November 15, 1997	Redgranite, WI
November 19, 1997	Eden Prairie, MN
November 19, 1997	Sheboygan, WI
November 22, 1997	Bloomington, MN
November 29, 1997	Milwaukee, WI (MRAC)
December 06, 1997	Hudson, WI
December 06, 1997	Oshkosh (Omro), WI
December 06, 1997	Racine, WI
December 06, 1997	Stevens Point, WI
December 06, 1997	St. Paul, MN
December 11, 1997	Apple Valley, MN
December 13, 1997	Blaine, MN
December 13, 1997	Madison, WI
December 13, 1997	Marshfield, WI
December 13, 1997	Marshfield, WI
December 13, 1997	Oak Creek, WI (MRAC)
December 13, 1997	Redgranite, WI
December 16, 1997	Eden Prairie, MN
December 20, 1997	Cottage Grove, MN
December 20, 1997	Loves Park, IL
December 20, 1997	Milwaukee, WI (BE)
December 27, 1997	Bloomington, MN
January 24, 1998	Appleton, WI
January 17, 1998	Sheboygan, WI
March 18, 1998	Sheboygan, WI
May 16, 1998	Sheboygan, WI
July 15, 1998	Sheboygan, WI
September 12, 1998	Sheboygan, WI
November 18, 1998	Sheboygan, WI
Monthly, 1st Sat.	Racine, WI
(except January, July & August)	
Monthly, 1st Sat.	Oshkosh (Omro), WI
Monthly, 1st Sat.	St. Paul, MN
Monthly, 2nd Thu.	Apple Valley, MN
Monthly, 2nd Sat.	Oak Creek, WI (MRAC)
Monthly, 2nd Sat.	Madison, WI
Monthly, 2nd Sat.	Blaine, MN
Monthly, 3rd Tue.	Eden Prairie, MN
Monthly, 3rd Sat.	Milwaukee, WI (BE)
Monthly, 3rd Sat.	Loves Park, IL
Monthly, 3rd Sat.	Cottage Grove, MN
Monthly, 4th Sat.	Bloomington, MN
Monthly, Last Sat.	Milwaukee, WI (MRAC)
(except December)	
No test on June 28, 1997 (Field Day)	
Monthly, Last Sat.	Tomahawk, WI
(January thru October only)	
Quarterly	Marshfield, WI
(Second Saturday every third month.)	
Quarterly	Eau Claire, WI
(Second Saturday Jan., Apr., & Oct.)	
plus annual summer hamfest.)	

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

GENERAL RULES

FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Some examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL. Send a 32c SASE if you request one from the ARRL. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$6.25 payable to "ARRL/VEC".

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE or CSCE to the VEC. You must also have two

good copies of your license or CSCE. A copy of your license or CSCE must be attached to your FCC form 610 and most VEC want a copy for their records. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

For those with internet access, a listing of exam sessions is available from:

<http://www.arrl.org/arrlvec/examsearch.phtml>

By checking this page, a person can find out registered VE sessions anywhere in US and some overseas. You can search by country, state or zip code. The listing is not specific to any particular VEC, it is a master database. (Thanks to KB9EQI for information.)

MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC)

SECOND SATURDAY - OAK CREEK, WI

LAST SATURDAY - MILWAUKEE, WI

SECOND SATURDAY DATE: 1:00 p.m. to 3:00 p.m. at Wauwatosa Savings Bank, 6560 S. 27th St., Oak Creek, WI.

LAST SATURDAY DATES: (except December): 9:00 a.m. to 12:00 noon at Amateur Electronic Supply (AES), 5710 W. Good Hope Rd., Milwaukee, WI. Note: For Additional Information: Call (414) 466-HAMS (Answering Machine).

Bring along your ORIGINAL license, CSCE (if any) and one (1) good quality photocopy of each, plus two forms of identification, such as a driver's license, etc. Also required is \$6.25 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: Print the grade of license you are applying for, your name, address, and telephone number. Send the card to MRAC/VEC, Milwaukee Radio Amateurs Club, PO Box 25707, Milwaukee, WI 53225.

BADGER EXAMINERS (BE) - MILWAUKEE

Badger Examiners group now testing at AES (Amateur Electronic Supply) at 6th and Good Hope, every third Saturday MORNING. Exam times are not 9:30 a.m. to 12:00 noon, at the old Sterman Printing shop, just 300 feet west of the AES store. Novice to Extra are offered, and all test materials are provided, fee is \$6.25, and bring your original license, or CSCE if needed. Also available are Commercial license exams GROL (General Radiotelephone license), GMDSS, Telegraph, Etc. Fee is \$35.00. For more information call Gary Sharbuno, WI9M at (414) 355-0237.

MADISON, WI

VE exams are held in Madison every second Saturday morning of the month at 8 a.m. They are held at the operations building of the Madison Metropolitan Sewerage District at 1610 Moorland Rd. To get there take the Beltline (Hwy 12 & 18) to South Towne Drive. Go south 8/10 mile till South Towne Drive makes a bend and becomes Moorland Rd. and enter at gate.

You should bring a picture ID, your original license and a copy of your license. For exams beyond the novice tests, bring a check for \$6.25, made out to the ARRL/VEC. If the special 610 form with the medical exemption is required, contact me beforehand to obtain one. No appointments are necessary to take exams. For further questions, please leave a message on the mailbox or phone me at (608) 832-6631.

Mark Jenks, NZ9B

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August. Monthly exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted.

Talk in on 147.87/27. Inquiries and registrations should be directed to Robert N. Jensen, WOWLN, 5616 Cambridge Lane #6, Racine, WI. Telephone (414) 886-8551.

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Terry Collins, KB9AUP, W6564 Highway 8, Tomahawk, WI 54487. Telephone (715) 453-4633.

ASHWAUBENON, WI (GREEN BAY)

Saturday, October 4, 1997. Held at the Ashwaubenon High School. Registration beginning at 8:00 a.m. with testing promptly at 9:00 a.m. Contact Keith Summers, N9NOF. (920) 336-6087. (After 4:00pm. only)

APPLETON, WI - ARRL/VEC MANITOWOC, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team. All test sessions in Appleton are held at James Madison Jr. High, 2020 S. Carpenter Street. Testing starting at 8 a.m. For Appleton information, contact George R. Croy, W9MDP, 2113 Twin Willows Drive, Appleton, WI 54914. (920) 730-0967. For Manitowoc or Kaukauna information, contact Larry Siebers, KD9IA (920) 759-1167.

STEVENS POINT, WI (ARRL/VE)

Held in room 107, of the UWSP Science Building, on the corner of Fourth and Reserve Streets in Stevens Point. Contact Joe Larson, N9JW evenings at (715) 344-1182.

PEWAUKEE, WI

Kettle Moraine Exam Team. Held at the Pewaukee WCTC Campus Science Building, Room S101. 9:00 a.m. to Noon. Contact Al Johnson, AA7CS. (414) 568-0836. 103357.3222@COMPUSERV.COM

OSHKOSH (OMRO)

The Oshkosh VE Team will administer Amateur Radio exams monthly on the first Saturday. Registration begins at 8:30 a.m. and exams will be given from 9 a.m. until noon at the Omro Community Center, 130 W. Larrabee, Omro, WI. Walk-ins welcomed. Bring a good quality photocopy of your original license and any other necessary documents such as a CSCE, etc. The first session will be through W5YI/VEC, and then sessions will alternate between ARRL/VEC and W5YI/VEC. The exam fee is

(continued on page 14)

RACINE MEGACYCLE CLUB

Second Mon., 7:30 p.m., Red Cross Bldg., 4521 Taylor Ave., Racine, WI

RED CEDAR REPEATER ASSOCIATION, INC.

Saturday coffee at Hardees in North Menomonie, corner of Highways 12 and 25 at 9:00 a.m. Social hour on 4th Tuesday at 7:30 p.m. at The Peppermill Too, 1414 9th Street in the L-Mart shopping center, for the months of January, March, April and September through November. Guests welcome.

RIVERLAND AMATEUR RADIO CLUB

First Tue. - 7:00 p.m. - Onalaska Community Center, Onalaska WI.

ROCK RIVER RADIO CLUB

Monthly - first Tue. - 7:00 p.m. at Dodge County Sheriff's Department, 141 N. Main, Juneau, WI.

ARES Net: 146.04/146.64 Mondays at 7:30 p.m. Sat.s on 7277 KHz at 10:30 a.m.

SHEBOYGAN COUNTY AMATEUR RADIO CLUB

Second Tue. - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

SOUTH MILWAUKEE AMATEUR RADIO CLUB

First Wed. - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

ST. CROIX VALLEY RADIO AMATEURS HUDSON

Club meetings are held on the third Tuesday of each month at the St. Croix County Emergency Government Center on Charnicael Road in Hudson, WI. A short business meeting begins at 7:30 p.m. followed by the program. Talk in is available on the 145.130 MHz repeater. All are welcome!

TAYLOR COUNTY AREA AMATEUR RADIO CLUB (TCAARC)

MEDFORD

Usually the 1st Thur. of the month at 7:00 PM sharp. Usual location: emergency government meeting room/Red Cross office, basement of Sheriff's Annex to Taylor County Courthouse, 2nd and Ogden Sts., Medford, WI. Talk-in on 147.15 (+600) repeater. Amateurs & guests are welcome. ARES Net, Wed. nights at 8:30 PM on 147.15 (+600) repeater. For info contact: Mike Schoenfuss, N9GHZ, P.O. Box 401, Abbotsford, WI 54405, phone (715) 223-3996.

TRI-COUNTY AMATEUR RADIO CLUB

Meetings held at members homes. Usually monthly on Sunday afternoon. Contact: Glenn Eisenbrandt, (414) 563-6502 or John Saterlee, (414) 563-6381.

WASHINGTON COUNTY AMATEUR RADIO CLUB

Second Thursday, 7:30 p.m., Washington County Court House. Net on Thursdays at 7:30 p.m. on 146.73.

WATERTOWN AMATEUR RADIO CLUB

First Thur. of the month at 7:00 p.m., The Watertown Public Library, 100 S. Water St., Watertown, WI.

WAUPACA AMATEUR RADIO CLUB

First Sat. in March, June, September and December, at 9:30 a.m. at the Waupaca Fire Station in downtown Waupaca.

"CQ First Tue." - A social gathering and dutch treat luncheon at the King's Table in King, WI, on Highway QQ just south of highways 10 and 54 on the west side of Waupaca.

WEST ALLIS RADIO AMATEUR CLUB

Second Tue. - 8:00 p.m. - St. Peters Episcopal Church, 7929 Lincoln Ave. Entrance is at rear of building on alley.

THE WINNEBAGO AMATEUR RADIO CLUB

(Formerly the Oshkosh Amateur Radio Club)

The Winnebago ARC welcomes all Amateurs and interested persons to join us at the Oshkosh Armory on Armory Place, Oshkosh, WI. Meetings are held the third Sunday each month at 1600 hrs. Talk in on 147.24 repeater.

For further information contact KB9IME, Dan Lenz, at (414) 233-7145.

WISCONSIN ASSOCIATION OF REPEATERS

Meetings are held Quarterly, with time and location to be announced. Repeater licensees, trustees, and sponsors are urged to attend W.A.R. meetings. All interested parties are welcome, as well.

WISCONSIN RAPIDS AMATEUR RADIO CLUB

Third Wednesday, 7:00 p.m. in room 114 of the Wood County Court House. Talk-in on 146.79 for entry into the building.

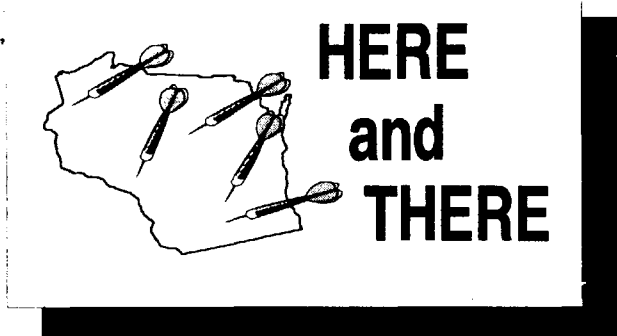
WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)

First Tue. - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)

Days rotate: The meeting dates for 1996 are Aug 14, Sep 12, Oct 15, Nov 13, with the Holiday party scheduled for Friday December 13, 1996. All meetings will be at the Baraboo Civic Center, room 14, unless otherwise noted. Starting time for the monthly club meeting is 7:30 p.m.. The program start time after the meeting is 8:00 p.m., with a one hour limit.

Let Badger State Smoke Signals know your club's meeting dates, and we will let our readers know of your meetings and activities. There may be Amateurs in your area interested in joining your club, or members of other clubs interested in making an interclub visit.



Videos sought for ARRL library

ARRL Educational Activities Department is looking for videos produced by clubs and individuals for programs to include in our audio-visual library. We'll consider any ham radio subject. Examples could be technical talks on such topics as tower or grounding safety, fun club activities such as a left foot CW sending contest, or interesting educational talks such as how to become a Skywarn watcher. The ARRL video library makes programs available to clubs and individuals at nominal cost to cover program expenses. Please submit tapes with your name, call sign, address and daytime phone to Dan Miller, K3UFG, ARRL EAD, 225 Main St, Newington CT 06111; e-mail dmiller@arrl.org. For more information on our Video Library, see <http://www.arrl.org/ead/videos.html#tapes>. --Dan Miller, K3UFG.

- The ARRL Letter, 9/12/97

Amateur Extra class certificate discontinued

The Amateur Extra class certificate that has been available through the ARRL Awards Branch has been discontinued. However, some stock remains, and applications will be accepted while blank certificates last. Send a copy of your Amateur Extra license and a check for \$5 to ARRL Awards, 225 Main St, Newington, CT 06111. --Chuck Hutchinson, K8CH.

- The ARRL Letter, 9/5/97

Volunteers sought to monitor Falcon Gold experiment

Cadets and faculty of the United States Air Force Academy--in cooperation with University of Colorado--Colorado Springs--have designed a small space payload that will be launched on an Atlas rocket the last week in October. Named Falcon Gold, the mission will sample the Global Positioning System (GPS) signal from behind the GPS constellation and downlink spectrum samples to ground stations for post processing. Due to its short (three-week) lifespan and a limited number of ground stations, the researchers are looking for volunteers around the world to collect telemetry and mission data from the satellite and forward electronic copies to the Air Force Academy. The satellite will transmit on 400.175 MHz, accessible from many scanners and Amateur Radio equipment. The data will be at 9600 using the AX.25 protocol used by hams. For more information, see <http://www.pcisys.net/~mork/> or e-mail Brian Mork, morkbj.dfc@usafa.af.mil. --Brian Mork.

- The ARRL Letter, 9/12/97

New version of STSPLUS available

Dave Ransom has updated the popular STSPLUS shareware program used to track the shuttle and the Mir space station. The latest version, a maintenance update "to correct a few bugs" is version 9736. Ransom says the file names on his BBS and home page are now [sop9736a.zip](#) and [sop9736b.zip](#). Users can download the new files from <http://www.dransom.com> or from the BBS at 520-282-5559 (8, N, 1).

- The ARRL Letter, 9/5/97

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YOUR VHF/UHF ANTENNA NEEDS
NEW! N4UAU's Super CW Station - Assembled
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E-MAIL: thetzel@excel.net

Circus Train Certificates

Certificates for contacts made with the Great Circus Train in July of this year are being processed, and some have been mailed. There are plenty of them yet to be done, though. I ask your patience, as this is a one-person (?) project (me), and BSSS takes much time to process and made ready for the big Harris-Intertype press in Merrimac.

If you worked us and did not send a 9 x 12 SASE with 78 cents postage on it, please do so. Send to the editor, address in masthead on page 2.

Down under low-frequency DX firsts

The first two-way VLF CW contacts between Australia and New Zealand have been logged. ZL3FJ used 100 W on 176 kHz and a 122-meter (approximately 400 feet) mast to work AX2TAR (operated by VK7ZAL) in Australia late last month. Reports were Q5 on both ends of the circuit. An attempt at an SSB contact was less successful. VK7RO and VK7ZAL both had solid copy on ZL3FJ, who was unable to read AX2TAR due to QRM from local power line carriers. The mast used by ZL3FJ had recently completed service for an MF AM broadcast station.

Thanks to Bob, ZL2CA, and the Wireless Institute of Australia.

- The ARRL Letter, 9/19/97

Massachusetts PRB-1 invoked to ax local tower law

A Massachusetts ham recently made good use of the PRB-1 federal pre-emption that was incorporated into that state's laws a couple of years ago to get a very restrictive local zoning bylaw overturned. Recently, the Massachusetts Attorney General's office disapproved the bylaw--known as Article 43--that had passed at the annual town meeting in Easton, Massachusetts. The bylaw applied limitations on the siting of towers, antennas and satellite dishes that would have restricted them from being built closer than 500 feet from existing buildings and prohibited them entirely from residential lots. The bylaw also would have prohibited antennas or dishes located on a structure from exceeding the structure's height by 10 feet.

Armed with a copy of the Massachusetts tower bill provided by ARRL New England Vice Director Don Haney, KA1T, Joseph Goveia, W1LQB, of North Easton wrote the state's attorney general and enclosed a copy of the state's PRB-1 statute. Under Massachusetts law, the attorney general's office must approve all zoning bylaw amendments.

In response, the attorney general told the Town of Easton that the restrictions in Article 43 "as applied to Amateur Radio antennas, violate state law." The AG declared, "No zoning ordinance or bylaw shall prohibit the construction or use of an antenna structure by a federally licensed Amateur Radio operator." The AG noted that zoning bylaws in Massachusetts "may reasonably regulate the location and height of such antenna structures for the purposes of health, safety, or aesthetics" but the bylaws would still have to "effectively accommodate Amateur Radio communications."

The AG also noted that "it is not at all clear that home satellite dishes for television reception would be permitted under this article."

ARRL New England Director Tom Frenaye, K1KI, observed that the Bay State's tower law "gives Massachusetts Amateur Radio operators a very viable tool to use in ensuring that Amateur Radio communications are effectively accommodated by zoning bylaws."


--Tom Frenaye, K1KI

- The ARRL Letter, 9/19/97

Editor's note: Codifying PRB-1 as Wisconsin law was tried two years ago. Gary, K9GS, your editor, and a few others tried to get Wisconsin hams to write or phone their representatives and senators. Those efforts were met with a massive yawn from Wisconsin hams. We had good people in both the Assembly and Senate who introduced the companion bills - and they were let down by the very people who would have benefitted. K9GS won't go through that again. Neither will I. Until it happens in YOUR city, no one cares - until it is too late.

Jim Romelfanger, K9ZZ

Have you considered becoming an ARRL Volunteer Examiner? If you are 18 or older, and are presently a General, Advanced, or Extra class licensee, the ARRL/VEC would be glad to hear from you. Feel free to contact the ARRL/VEC at (800) 927-7583 and request our Prospective VE Packet. Very 73 to all my friends in Wisconsin!

ARRL  **VEC**

Bart Jahnke, W9JJ/1 • ARRL/VEC Manager

WISCONSIN FIPS CODES

By Skip Voros, WD9HAS

For those of you purchasing the new Radio Shack weather radios with the "SAME" function, here are the Wisconsin FIPS codes for your county. (See BSSS, September, 1997.) Since the Radio Shack rigs require a six digit code, enter a zero followed by the five digit FIPS code.

FIPS CODE	COUNTY	NWS	TYPE	ST
55001	Adams	ARX	FIPS	WI
55011	Buffalo	ARX	FIPS	WI
55019	Clark	ARX	FIPS	WI
55023	Crawford	ARX	FIPS	WI
55043	Grant	ARX	FIPS	WI
55053	Jackson	ARX	FIPS	WI
55057	Juneau	ARX	FIPS	WI
55063	La Crosse	ARX	FIPS	WI
55081	Monroe	ARX	FIPS	WI
55103	Richland	ARX	FIPS	WI
55119	Taylor	ARX	FIPS	WI
55121	Trempealeau	ARX	FIPS	WI
55123	Vernon	ARX	FIPS	WI
55003	Ashland	DLH	FIPS	WI
55007	Bayfield	DLH	FIPS	WI
55013	Burnett	DLH	FIPS	WI
55031	Douglas	DLH	FIPS	WI
55051	Iron	DLH	FIPS	WI
55099	Price	DLH	FIPS	WI
55113	Sawyer	DLH	FIPS	WI
55129	Washburn	DLH	FIPS	WI
55009	Brown	GRB	FIPS	WI
55015	Calumet	GRB	FIPS	WI
55029	Door	GRB	FIPS	WI
55037	Florence	GRB	FIPS	WI
55041	Forest	GRB	FIPS	WI
55061	Kewaunee	GRB	FIPS	WI
55067	Langlade	GRB	FIPS	WI
55069	Lincoln	GRB	FIPS	WI
55071	Manitowoc	GRB	FIPS	WI
55073	Marathon	GRB	FIPS	WI
55075	Marinette	GRB	FIPS	WI
55078	Menominee	GRB	FIPS	WI
55083	Oconto	GRB	FIPS	WI
55085	Oneida	GRB	FIPS	WI
55087	Outagamie	GRB	FIPS	WI
55097	Portage	GRB	FIPS	WI
55115	Shawano	GRB	FIPS	WI
55125	Vilas	GRB	FIPS	WI
55135	Waupaca	GRB	FIPS	WI
55137	Waushara	GRB	FIPS	WI
55139	Winnebago	GRB	FIPS	WI
55141	Wood	GRB	FIPS	WI
55021	Columbia	MKX	FIPS	WI
55025	Dane	MKX	FIPS	WI
55027	Dodge	MKX	FIPS	WI
55039	Fond du Lac	MKX	FIPS	WI
55045	Green	MKX	FIPS	WI
55047	Green Lake	MKX	FIPS	WI
55049	Iowa	MKX	FIPS	WI
55055	Jefferson	MKX	FIPS	WI
55059	Kenosha	MKX	FIPS	WI
55065	Lafayette	MKX	FIPS	WI
55077	Marquette	MKX	FIPS	WI
55079	Milwaukee	MKX	FIPS	WI
55089	Ozaukee	MKX	FIPS	WI
55101	Racine	MKX	FIPS	WI
55105	Rock	MKX	FIPS	WI
55111	Sauk	MKX	FIPS	WI
55117	Sheboygan	MKX	FIPS	WI
55127	Walworth	MKX	FIPS	WI
55131	Washington	MKX	FIPS	WI
55133	Waukesha	MKX	FIPS	WI
55005	Barron	MPX	FIPS	WI
55017	Chippewa	MPX	FIPS	WI
55033	Dunn	MPX	FIPS	WI
55035	Eau Claire	MPX	FIPS	WI
55091	Pepin	MPX	FIPS	WI
55093	Pierce	MPX	FIPS	WI
55095	Polk	MPX	FIPS	WI
55107	Rusk	MPX	FIPS	WI
55109	St. Croix	MPX	FIPS	WI

All weather warnings for a given county are issued by regional N-W-S offices. Their call letters are:

ARX La Crosse	MKX Milwaukee
DLH Duluth	MPX Minneapolis
GRB Green Bay	

Two versions of FCC Form 159 confuse filers

With no fanfare, the FCC issued a new Form 159, Remittance Advice, in July that's somewhat different from the earlier version of the form issued in February. As of September 15, 1997, the FCC requires vanity call sign applicants to file a Form 159 with their applications no matter the method of payment. The FCC still was shipping the old Form 159 as of mid-summer, despite the revision.

While the two forms require essentially the same information, some item numbers on the new form--available via the FCC Web formpage site--are different. For example, applicants enter the Payment Type Code (which is "WAVR") in Item 20A on the new version and Items 14A and 14B on the old version of Form 159. Under Item 21A on the new form, applicants filing only one application may write "1" or simply ignore the box.

The Fee Due, entered in Box 22A, rose to \$50 for the ten-year license term as of September 15, 1997. Hams can ignore Items 23A and 24A. Under Item 25, Payer TIN, and Item 26, Applicant TIN, applicants should supply the appropriate Social Security number(s). The new Form 159 contains a Section F for Credit Card Payment Information. Applicants must print their name and sign Form 159.

- The ARRL Letter, 9/19/97

Local authorities can't prosecute admitted jammers

Authorities in Elkhart, Indiana, report they know who planted repeater jamming devices in the area -- including a couple inside beach balls, but they can't do anything about it -- even though the two people responsible have admitted it to police. That's because the local authorities have no jurisdiction in the case, which involves federal law. The local sheriff's department declined to identify the suspects other than to say that neither are licensed amateurs and that one of them is female. Mike McCauley, KB9GNU, the Public Information Officer for Elkhart County Department of Emergency Management, told *Amateur Radio Newsline* that not all of the devices were hidden in beach balls. McCauley says that a number of the jamming units were literally sold into the homes of the general public. One was even equipped with a seismic detector that would turn the unit off when a direction-finding team came within about 30 feet of it. Another one was put inside a brand-new TV set that had been returned to a department store then resold. Word is that the pair involved simply do not like ham radio and appear to have a personal vendetta against hams.

Local authorities have reportedly asked the FCC to investigate. --Newsline via KB9GNU and N9PGE

- The ARRL Letter, 9/19/97

Professional storm chaser course offered

Ever since the Oakfield, Wisconsin, F-5 tornado event, a whole new group of aspiring and novice storm chasers has evolved in the Midwest. Yet, most of these people have little or no opportunity training.

Now, Wisconsin's premier professional storm chaser, Don Lloyd, would like to share his knowledge for those individuals wanting to better their education and training.

Because Mr. Lloyd is a well recognized advanced storm spotter, licensed amateur radio operator, and participates in Skywarn activities across the country, the Milwaukee Area SKYWARN Association, Inc., is promoting his program.

Skip Voros,
Executive Director, MASA, Inc.

WISCONSIN STORM CHASING SEMINAR

Designed for the aspiring or novice storm chasers.

November 1, 1997. Time: TBD. Fond du Lac, Wisconsin (East Central Wisconsin).

This tentative program (provided there is sufficient interest), will be presented in an easily understood format, and presumes that participants have little or no formal weather training.

AGENDA

I. Introduction by professional storm chaser Don Lloyd: Reasons to chase and/or not to chase. "Twister" from a stormchaser's perspective.

II. Basic weather concepts and measurements: Overview: The three-dimensional atmosphere. Weather Terminology: Understanding convective outlooks. Weather Maps: Surface and upper air maps. Weather Models: Value to the chase forecast. Weather Analysis: Surface, upper air, jet stream, SKEW-T Forecasting: Using SPC convective discussions.

III. Tools of the trade: Equipment, Weather services, InterNet resources. Cameras and video equipment for the newcomer.

IV. The game plan: Choosing YOUR target area - and where NOT to chase. Positioning: Where is it SAFE to view the storm? Storm Dynamics: The Updraft, Mesocyclone, and downdrafts. Storm Structure: Rain-free base, wallclouds, shelfclouds. Supercell types: Classic, L-P, H-P, hybrids.

V. The unwritten rules: Chase hazards: hail, wind, rain-soaked roads, lightning. Chase safety: staying out of trouble in the near - storm environment, and; Chase courtesy: how to avoid being a "Yahoo."

Circus City Swapfest

Sponsored by The Yellow Thunder Amateur Radio Club

Saturday August 8, 1998 • 7 a.m. - noon
Sauk County Fairgrounds • Baraboo, WI

Vendors • Concessions
Camping • Free Parking
Tail Gate Area

\$4 - Advanced
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8 Foot Tables - \$5

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(808) 356-2313/356-4777

Bill Klinkner, N9KXX
(808) 643-6908/643-6453
http://www.thelox.com/~sschulze/hamfest.htm

Oshkosh ham radio claim

An Oshkosh Wisconsin amateur radio operator is seeking \$550,000 from Winnebago County as the result of his being denied access to a county owned repeater used for RACES communications. According to the *Oshkosh Northwestern* newspaper, attorney James Manske, has filed the claim on behalf of Richard Lemme. The paper says that Lemme is reportedly asking \$50,000 in compensatory damages, emotional distress and loss of radio use and loss of enjoyment. Lemme is also demanding \$500,000 in punitive damages.

All of those involved are said to be hams although no call signs were given. At issue is a fifteen minute time slot on Sunday evenings when members of the Radio Amateur Civil Emergency Service train and test their equipment. The claim, typically a precursor to a lawsuit alleges that Winnebago County conspired with RACES members Michael O'Conner and Duane Ritschke, to keep Lemme from access to the county owned radio repeater during the Sunday evening net. Lemme also claims that O'Conner and Ritschke interfered with his access at other times when the repeater would be available to any licensed radio amateur.

The newspaper says that the dispute between Lemme and the RACES group began last November. It quotes O'Conner as saying that Lemme was booted off the repeater after several warnings to adhere to guidelines for communications content deemed by the RACES group to be appropriate on the air.

Last May, Lemme unsuccessfully sought a restraining order be issued against O'Conner whom he alleges cut his coax transmission line.

As the dispute escalated, Winnebago County Executive Jane Van De Hey ordered that the repeater be shut down. The repeater went silent in March but was reactivated early last May for use during the summer tornado season.

No matter what the outcome of Lemme's litigation, it appears as if all the hams in Oshkosh will be losers. This is because the repeater itself may soon be gone. Van De Hey says that she wants to get rid of the equipment and the in-fighting that has grown up around it.

(Adapted from *The Northwestern*, furnished by W6CCK.)

- Newsline, 9/12/97

Recommended study materials: InterNet, Links, Books.

The program will conclude with a question and answer session.

All necessary materials will be supplied and each participant will receive a two hour VIDEO TAPE with highlights of the day's program. Cost is expected to be about \$100.

For registration and information contact:

Don and Jennie Lloyd,
E-mail: dlloyd@tcccom.net
Phone: 920-923-5045.

MASA, Inc.

masa@execpc.com

- Skip Voros/WD9HAS

FCC Wins In Court Against 2 Unlicensed Broadcasters

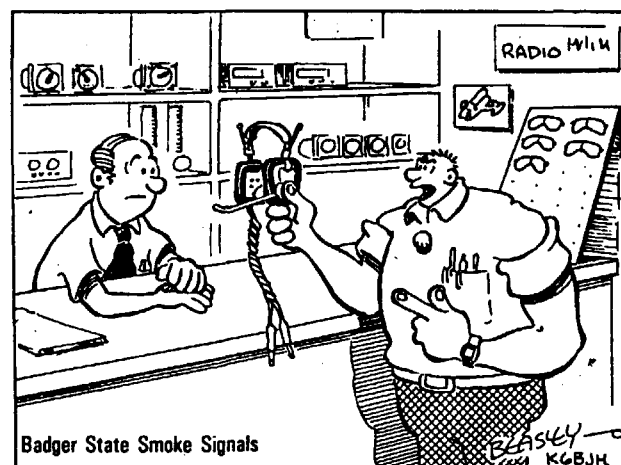
The FCC has won two major victories in legal actions it filed against two unlicensed radio operators.

On September 5th, the United States District Court for the District of Minnesota granted the Government's motion for judgment on the pleadings in a pirate radio case. The Court support[ed] the Government's actions in seizing equipment which had been used for operating an unlicensed radio station in Minneapolis, Minnesota.

And The U.S. District Court for the Middle District of Florida, Tampa Division, has granted the Government's motion for summary judgment. This, affirming the seizure of radio equipment in a pirate radio case.

On the Lighter Side

By Bob Beasley, K6BJH



Badger State Smoke Signals

WHEN I BOUGHT THIS, YOU GUYS TOLD ME ONE SIZE FITS ALL!

Both cases are precedent-setting in that they affirm laws already on the books, laws that give the government the unilateral right to confiscate any unlicensed transmitter if it's operated in violation of FCC rules.

- Newsline, 9/22/97 via FCC release

It's Andy Thomas for Wendy Lawrence aboard Mir

Astronaut Andy Thomas is studying for his ham ticket in anticipation of spending several months aboard the Russian Mir space station starting in January. He'll replace Wendy Lawrence, KC5KII, in the Mir rotation. Lawrence originally was supposed to replace Mike Foale, KB5UAC, aboard Mir later this month, but in the wake of the problems aboard the space station over the past few months, however, NASA determined it would prefer to have an astronaut aboard Mir who could fit the Russian space suits--in case an astronaut needed to participate in a space walk as Foale has had to do during his Mir stay. Lawrence is too small to wear the Russian space gear, and that same thinking could have been behind swapping Thomas for Lawrence on the subsequent Mir posting.

Lawrence will, however, be aboard the September 25 shuttle flight, STS-86, that will deliver US astronaut David Wolf, KC5VPF, to Mir. NASA decided this week that Mir was safe enough to keep an astronaut aboard. This month's rendezvous and docking will also deliver supplies and return Foale to Earth from his four-month stay aboard Mir. In addition to Wolf and Lawrence, the Atlantis crew will include Commander Jim Wetherbee; Pilot Mike Bloomfield; and Mission Specialists Scott Parazynski, KC5RSY; Jean-Loup Chretien; and Vladimir Titov, KD5AOS. Parazynski and Titov will conduct a spacewalk to retrieve some science experiments from the outside of the station. STS-86 will mark the 20th Atlantis' 20th space mission and the 87th shuttle flight in the program's history.

Wolf, 41, is both an electrical engineer and a medical doctor. A native of Indianapolis, Wolf is single. He holds 11 US patents and has published more than 40 technical papers. Wolf became an astronaut in 1990. He served as a mission specialist astronaut aboard space shuttle Columbia (STS-58) in late 1993. Wolf has completed training to replace Foale for a four-month stay on Mir and continue the permanent US presence on the station that began with Shannon Lucid in 1996.

Thomas, a native of Australia, is 45 and single. He holds a PhD in mechanical engineering, and he became an astronaut in 1993. Thomas flew his first flight in space on Endeavour in May, 1996.

--NASA

- The ARRL Letter, 9/19/97

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OCTOBER 1997

The Computer Corner

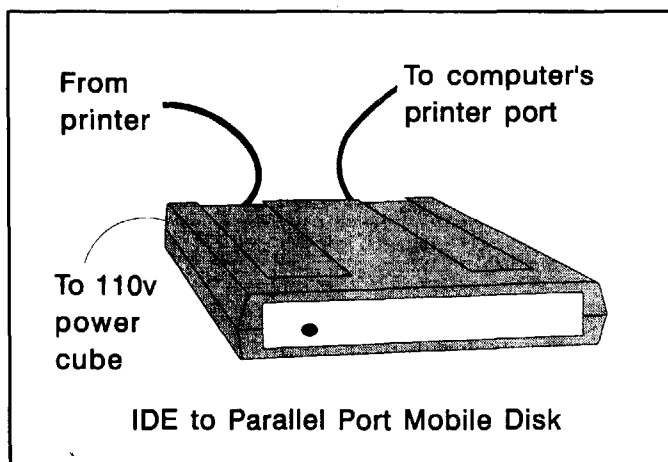
By Stan Kaplan, WB9RQR
105 Martin Drive
Port Washington, WI 53074-9654
(414) 284-9346
WB9RQR @ N9PBY.EM63BI.WI.USA.NA
SKAPLAN @ MCW.EDU

No. 47: A Unique Tool for Backups

XT, 286, 386, 486 or Pentium, tower, desktop or laptop, Windows or DOS, IBM or MAC, it doesn't matter. Whatever you use, wherever you use it, you just have to do backups. I always kiddingly say that there is a gremlin in every computer. He watches what you do. If you back up your system, he is unlikely to bother you. If you don't, he most certainly will trash your data and programs. You just must back up if you are a serious computer user.

Well, the other day, he got me, even though I do regular backups. The 500 Mb hard drive in my second computer went down - the one I use for packet, some word processing, graphics and general messing around in DOS and Windows 3.1. I tried everything, including a low level format (you are not supposed to do that to IDE drives, so don't try it). Even that last ditch attempt failed. Later, I discovered it was not the hard drive at all, but rather a faulty hard disk controller. When I replaced the controller, the hard drive came back to life again. I replaced the partitions with F-disk, high level formatted it, and put the system and program files from IBM DOS 7 on it (IBM PC-DOS 7 is considerably better than MS-DOS 6.22, and more recent, too). Now, I was faced with either re-installing all the programs from their original floppies, or using a backup. Of course, I chose the latter.

A couple of months ago, my parallel port tape drive failed, and I had to send it back to the factory for warranty repair. In the meantime, I purchased a neat device to take its place. It is called an IDE to Parallel Port Mobile Hard Disk Transformer Kit. It includes a 5" X 8" X 1 1/2" plastic case, a parallel cable and a power cube that plugs into the wall. Inside the



case is a PC card, but most of the case is empty. You connect your own IDE (or EIDE) hard drive up to 2 gigabytes to the cables inside the case, then fit in the drive and close the case. I used a spare 240 Mb drive for this application (you should be able to pick up a 100 Mb IDE drive for around \$10 at the next swapfest). Next, turn off your computer, unplug the printer, plug it into the back of the mobile disk's case and plug the mobile disk's cable into your printer port. That's it for the physical installation; power up.

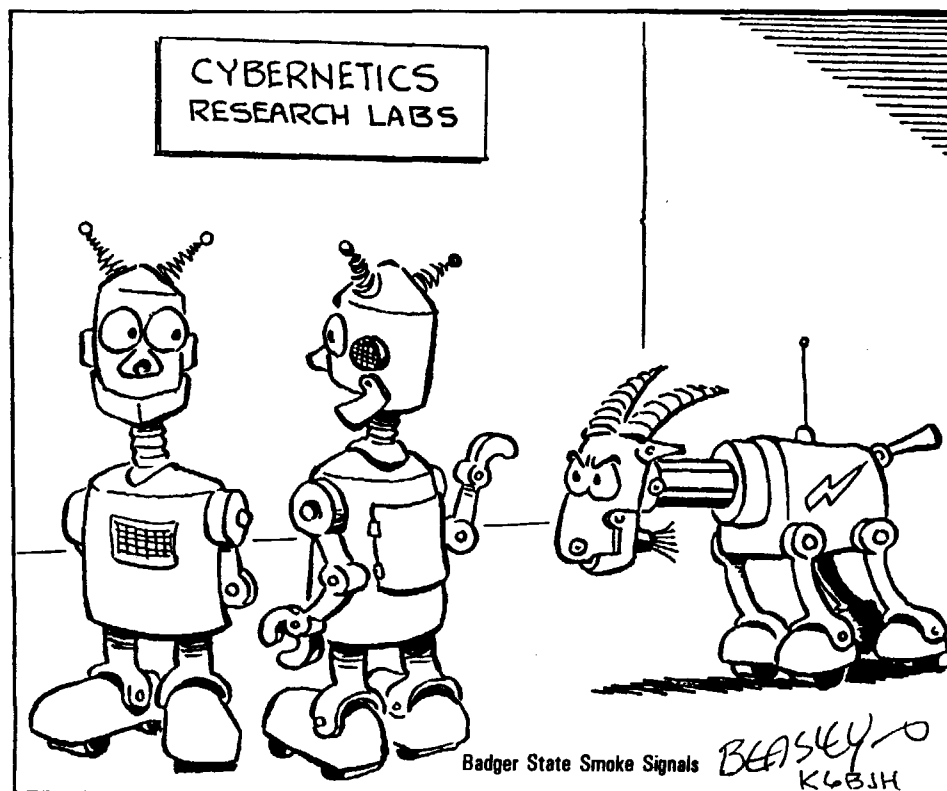
The kit comes with a floppy containing software for DOS, Win 3.1 or Win 95 (286 machine or above). Software installation is a snap, and takes only a few seconds. Thereafter, you run a supplied batch file which sniffs out the mobile drive and installs it in the operating system as the next drive letter. For example, if you have floppies A: and B:, hard drive C: and CD-ROM drive D:, the software will install the mobile drive as E:. Once that is done, you can access it just like your main hard drive (assuming, of course, that the mobile drive has already been partitioned and formatted). You can copy files from C: to E:, or E: to C:, or to and from any other read/write drive. Now, you are ready to back up your system.

The simplest approach is to just copy your files to the mobile drive, but don't forget that the mobile drive's size must be large enough to accommodate all your files. Perhaps you will want to copy just your critical data files, and use the original program disks for a full reinstallation if you ever need it. Just 10 days before my system went down, I had used PKZIP to make one big monster backup file of everything on my hard drive (96,358,173 bytes!), and I copied it to the mobile drive. It took only about an hour to copy and restore everything - about 200 Mb of programs and data after decompression. What a lifesaver!

The kit cost me exactly \$99 with shipping and handling, but you may be able to find it cheaper. The unit I purchased is made by Valuestor, Inc., 1609B Regatta Lane, San Jose, CA 95112-1116, Ph. (408) 437-2300, Fax (408) 437-9333. Their technical support hotline is (408) 437-2310, though it seems unlikely that you will need to contact them. A small but excellent manual comes with the device, and it really takes you through installation step by step. My installation was a snap and worked the first time. You can also reach them at ValuStorTS@aol.com, FTP://users.aol.com/ValuStorTS/download.

How about leaving it on-line? Of course, when your backup is done, you can easily unplug everything and put it away in a safe place. On the other hand, if you are low on free space on your main hard drive, you can leave the mobile device plugged in and use whatever space is free after copying your backup to it. Unlike a tape drive, you can copy files to it in their native state - no compression is required. You can even run programs from the mobile drive, just as you can with your main hard drive. The device's features make it extremely flexible, and worthy of your consideration and your hard earned money. I like mine very much, and it has already paid for itself by saving me the many hours of labor required to re-install and set up all my software. Happy computing!

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BETTER WATCH HIM --- HE'S GOT ABOUT 400 FOOT POUNDS OF RAM!

Thanks to Stan Kaplan, WB9RQR, for his excellent, continuing series about computers, their innards and how they do what they do. He has told us a lot about the enigmatic beasties. If you have a comment or an idea for a topic for his column, please contact him at the any of the addresses in his column heading. He even appreciates an occasional thank you. - K9ZZ

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Morse 2000 World Conference set

Morse 2000 Worldwide Outreach is giving Morse code a new lease on life to help rehabilitate and educate people with special needs and disabilities. The first Morse 2000 World Conference is now set for late October in Minnesota.

Because it can be sent using a binary-opposition movement pattern, Morse code can be generated with left-right, push-pull and puff-sip control. The code--used in communication for the past 150 years and being phased out in many spheres--has proven to be among the best of several adaptive computer-access methods and augmentative or alternative communication techniques for many people with special needs. The ARRL Foundation has supported the program through grants.

"We now have over 2,000 participants in 27 countries!" exclaims Debra R. King, N9GLG, the director of Morse 2000 Worldwide Outreach. King manages the Office of Continuing Education in Human Sciences and Services at the University of Wisconsin--Eau Claire, and enthusiastically promotes the use of Morse code in rehabilitation and education.

Through her encouragement, various Morse code programs are being used or tested to allow people such as those with spinal cord injuries to converse. She provides information for occupational therapists or speech pathologists and promotes the advantages of using Morse code to help their patients. Occasionally, though, it works the other way around: sometimes patients hear about Morse 2000 and put their therapists in touch with King! The bottom line, however, is that the information she provides can save the therapist-patient team years of research attempting to find the best methods and selecting reliable equipment.

and children's hospitals around the world, as reported in MORSEs, the Morse 2000 newsletter. One researcher told of the case of a woman with ALS (commonly called Lou Gehrig's Disease) who had lost her ability to speak but was able to communicate using Morse code--at first by blinking her eyes and later by using an optical switch activated by jaw movement that was wired to a PC. The same researcher told of a stroke patient who employed his very limited movement to send Morse code messages to his wife. Another report tells of a stroke victim who is able to talk in Morse code by activating a chin switch.

Speech pathologist Thomas King, WF9I--Debra King's husband and the editor of MORSEs--called Morse code "one tool of many" in providing "adaptive access" for those unable to communicate through conventional means. He told of a young man he called Barry who had been severely injured and rendered a quadriplegic after being hit by a car as a youngster. He retained facial movement and can speak (although he's on a ventilator), but he can use Morse via a puff-and-sip switch to write 20 WPM or so. Now in the high school, Barry hopes to eventually attend college. "The use of Morse for taking notes without calling a lot of attention to yourself has worked out very well," Thomas King said.

The first Morse 2000 World Conference will be held October 25-26, 1997, in Bloomington, Minnesota. Featured speaker is rehabilitation engineer Kevin Caves of the Rancho Rehabilitation Engineering Program in California. Although the conference is aimed at clinicians, teachers, therapists, assistive technology users, researchers and product developers, Amateur Radio operators also are encouraged to attend and share their technical knowledge, and to help develop equipment and code skills to train others. Registration prior to October 1 is \$98.

For more information on the conference or on Morse 2000, contact Debra King, Morse 2000 Worldwide Outreach, Human Sciences & Services Outreach Office, University of Wisconsin-Eau Claire, Eau Claire, WI 54702-4004; tel 715-836-3990; e-mail kingdr@uwec.edu. Morse 2000 can also be found on the World Wide Web at <http://www.uwec.edu/Academic/Outreach/Morse2000/morse2000.html>.

-- Thanks to Richard Regent, K9GDF

The ARRL Letter, 9/26/97

Attorneys and professional engineers: The ARRL wants you!

One important service the ARRL provides to amateurs with antenna restrictions is referral to attorneys or professional engineers in their areas. Because they are hams, these attorneys and engineers are aware of our particular concerns. These professionals are members of the ARRL's Volunteer Counsel and Volunteer Consulting Engineer programs. They provide valuable assistance to hams who have to fight City Hall in order to pursue their interests.

Not long ago we put a call for attorneys and professional engineers to join both programs. The response was gratifying, but the need has become even greater. That's why we're asking again.

The Volunteer Counsel Program has several goals. It was developed to provide a better means of tracking and, when necessary, opposing local ordinances and statutes that might have a detrimental effect on the Amateur Radio Service and League members.

The second goal is to compile and maintain an up-to-date list of attorneys capable of representing amateurs involved in antenna or RFI disputes. Amateurs who need the services of an attorney in their area to deal with local opposition to their radio activities frequently call Headquarters. Because attorneys must be admitted to the state bar in order to practice law in a given state, we need Volunteer Counsels in each state. Unfortunately, the following states and territories are not currently represented in the VC program: Delaware, Mississippi, Oregon, Puerto Rico, and South Dakota. Amateurs who are attorneys in these states are especially needed.

The League does not expect a Volunteer Counsel to represent an amateur free of charge. When Headquarters makes referrals, we emphasize that VCs make their living practicing law and amateurs should not expect free or reduced-cost legal representation. Volunteer Counsels



are asked, however, to provide an initial consultation gratis, so that the amateur may knowledgeably decide what further steps to take.

The Volunteer Consulting Engineer Program provides assistance to amateurs who may need to meet structural requirements set forth by local zoning authorities. Such engineering requirements are often necessary to obtain a permit to erect an antenna support structure. Hams often need an "expert witness" to certify that the tower in question meets or will meet the engineering requirements of local ordinances. Amateurs who need assistance are referred to Volunteer Consulting Engineers in their area.

As with Volunteer Counsels, VCEs are not expected to provide their services for free. We only ask them to provide an initial consultation gratis, and to consider giving discounted rates to amateurs where possible to meet a common goal for the good of Amateur Radio in the community.

VCs and VCEs must be full ARRL members and licensed amateurs. VCs must be admitted to the bar in the state for which they are listed, and VCEs must be Registered Professional (structural, civil or mechanical) Engineers.

If you are interested in becoming involved in either program, please contact the Regulatory Information Branch at ARRL Headquarters. We can be reached by phone at 860-594-0323, or by e-mail to reginfo@arrrl.org. If you have access to the Web, you can apply on-line for either program by accessing the ARRL web page at: <http://www.arrrl.org/field/regulations/local/vc-vce.html>.

--Tom Hogerty, KC1J, Supervisor,
Regulatory Information Branch

The ARRL Letter, 9/26/97

Free Technical Coordinator Manual? Just ask K9GDF!

Would you like to receive a free copy of my 45-page *Technical Coordinator Manual*, published by the American Radio Relay League?

As author of this book, I made sure it has several of my cartoons. You'll enjoy seeing them, plus using a technical resource flow chart that I designed that really works! The current edition has a large appendix of *QST* articles so you can find particular technical information without searching through many back issues of *QST*. Nine chapters include subjects like: The Club Connection; Activities; How to Write, Speak and Coordinate; and the Technological Future. The book has a price of \$5.00 but you can get it free.

There is a catch: You'll have to make use of the book and volunteer to be an ARRL Technical Specialist. In other words, there is a chance I might refer someone to you who needs a little technical advice. You can even help through the mail or on the phone as you wish. It doesn't matter whether you are a generalist or a specialist, you simply need to be licensed and an ARRL member to qualify for the free manual. You will then also receive a regular ARRL newsletter called *Field Forum* and other valuable information.

Please mail me a short note expressing your interests and qualifications. After review and approval, I'll send you a colorful certificate and tell Headquarters to rush you a copy of the *Technical Coordinator Manual* - free!

Rich Regent, K9GDF

5003 S. 26th St., Milwaukee WI 53221

Monitor, flatbed needed

After a couple years of battling to produce halftones (the way photos are prepped for printing) with little success, we have "figgered it out." The flatbed scanner needs to be changed to a color model (preferably HP), replacing the B&W flatbed we now are using, and we MUST go to a 15" SVGA monitor to get the best resolution we can (middle aged eyes are not what they used to was.). All else will work. The end result will be to save lots of people a lot of work, travel, and so on, and it will save BSSS money. You hear me, Santa? I've been a good boy *most* of the time this year. I'll even leave you a six-pack! (Don't give any to Rudolph. Remember last year when you said to him the Schmidt house?) □

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Ham radio now an "official" ISS payload

Amateur Radio is now considered to be an official payload on the International Space Station (ISS). In fact, reports Matt Bordelon, KC5BTL, at Johnson Space Center, ham radio was the first payload to become official. Bordelon already has started the training program for the first crew who will be putting together the ISS starting in January 1999.

Based on our initial request to be manifested onboard, the ISS Payloads Office is listing Amateur Radio as being onboard with (1) a transportable station (H-Ts), (2) a site on the EXPRESS pallet, and (3) a permanent station on the Habitation Module. Amateur Radio soon will be assigned a Payload Integration Manager (PIM) for each of these.

The ARRL Letter, 9/26/97

Card ad renewals due

With just a few exceptions, renewal time for business card ads has arrived. There are a few that do not run January to December, but most do. Some have renewed for multiple years, but most have not. The billing has been mailed to all whose ads are due, and hopefully no errors were made. So, don't keep your swapfest or business a secret! In some cases, the people responsible in clubs which sponsor events change, and the bill may go unforwarded or tossed in the round file. Please be sure you don't lose your space and be sure you keep your event or product or service "out front". If you have questions, contact K9EN or K9ZZ. See the masthead on page 2. □

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NEW PRODUCTS

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The MFJ-9606 is packet-ready and compatible with virtually any TNC. The FM Communicator™ is the perfect way for local club members to stay in touch on a clear and quiet channel. Find out how pleasant FM simplex can sound - or choose one of the growing number of 6 meter repeaters.

The MFJ-9606 has a ten-watt transmitter, which is plenty enough power to have fun on FM simplex, repeater, or packet service. If you need more power out, the MFJ-9606 is fully compatible with Mirage's high-power 150-watt A-1015-G amplifier.

MFJ-9606 features MFJ's exclusive CrystalClearVoice™ that gives true-to-life speech quality and ultra-clean AFSK data signals. An optional plug-in encoding module is available soon for accessing protected repeaters.

Super fast PIN diode transmit/receive switching keeps turnaround time really low - this is perfect for packet and other data modes. The FM Communicator™ can be run 24 hours a day without even getting warm. The receiver draws less than 30 mA (including the pilot light).

The MFJ-9606 gives you a super dual-conversion FM receiver with quiet LNA (low noise amplifier) front end for excellent weak signal reception. This is an exceptionally pleasant radio to use because of the clear audio reproduction, loud built-in speaker, and choice of squelch modes.

You can choose the type of squelch you need! Select conventional hysteresis squelch for weak signal base-to-mobile operation, use MFJ's exclusive Instant-OnSquelch™ for tail-free repeater or packet operation, or use open squelch if your TNC, like MFJ's, has a noise rejecting DCD.

The MFJ-9606 FM Communicator™ is very simple to

operate and easy to rechannel. Use the factory-installed 52.525 MHz calling frequency crystals or order other packet or voice channels from MFJ - \$24.95 for each frequency pair, transmit/receive. The manual provides simple step-by-step instructions on how to change crystals.

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For your nearest dealer or to order, call toll-free (800) 647-1800; FAX (601) 323-6551, or write to MFJ Enterprises, Inc., 300 Industrial Park Road, Starkville, MS 39759.

MFJ news release

MFJ-1762 3-Element 6-Meter Yagi

MFJ's three-element 6-Meter yagi quadruples ERP (effective radiated power) over a half-wave dipole!

A directional antenna is essential for long-distance VHF communication. By focusing transmitter power onto the horizon in a single direction, MFJ's three-element 6-Meter Yagi quadruples ERP (effective radiated power) over a half-wave dipole.

The same benefit applies when receiving - sensitivity toward the front of the antenna is improved greatly over a dipole, while unwanted noise and interference from other directions are rejected.

The MFJ-1762's main lobe (area of maximum sensitivity) is 70 to 80 degrees wide. This means that you can converse with several stations in one general direction without having to constantly reposition your rotator for maximum signal.

Two MFJ-1762s can be stacked to double the transmitter power ERP and the received signal over a single antenna. It also doubles the received signal.

Stacked antennas have greater capture area, which can improve reception even more.

The MFJ-1762 weighs just 2 pounds, and has a boom length of 6 feet. It is designed for installation with readily available TV mast, mounts and hardware. A current balun decouples the 50Ω feedline from the antenna.

MFJ's exclusive NoTune Hairpin™ impedance matching system is used for the driven element. Elements are cut to the exact length at the factory. No further tuning should be needed for coverage of the 50 MHz SSB band.

The MFJ-1762 is also an excellent choice for 6-meter portable or rover operation because of its compact size, light weight construction, and easy-to-remove elements. The MFJ-1762 will handle 300 watts PEP SSB, and can be mounted horizontally or vertically.

MFJ-1762 3-element 6 Meter Yagi is covered by MFJ's NO MATTER WHAT one year unconditional warranty. MFJ will repair or replace (at their option) your unit for one complete year.

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MFJ news release

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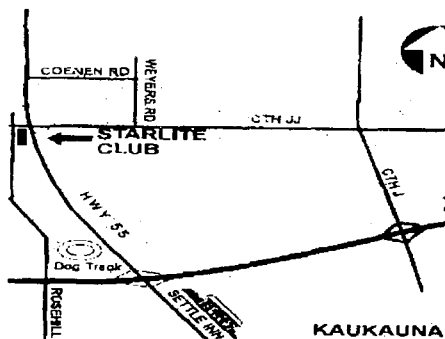
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July brings joy to jaded 6M ops

Wisconsin Six Meter operators experienced a variety of band openings this summer. June was generally a disappointment, with "stinko" condx for several major contests, including the ARRL VHF QSO Party, Field Day, and the SMIRK Contest. But July brought long-awaited openings from the Badger State to a variety of places beyond the usual Texas and Florida.

On July 1, Ken, WF9X, and Jim, KA9UZW, logged the CY9AA DXpedition on St. Paul Island in the Gulf of St. Lawrence between Newfoundland and Nova Scotia. Ken was running 50w from a TS-690 to a 4-element homebrew yagi up 15 feet from his hilltop home in northwestern Germantown. CY9AA QSOs were particularly sought-after since CY9 counts as a separate country from Canada for DXCC purposes.

Over the Fourth of July weekend, Tony, AA9PC, of Milwaukee worked VE3AQU in Ontario, plus W7VVW in Washington State and several stations in Virginia. Tony runs 100W from a Kenwood TS-570S to a HyGain 4-element yagi at 55 feet. Over the next week, Tony worked a slew of Quebec stations on Six, along with several VE1s (Nova Scotia).

Marty, KB9NNW, of West Allis, has put his 10W MFJ-9406 6M transceiver to good use this summer. With only a Max Systems Zepp dipole strung up from his first-floor living room to his kitchen ("My wife's ready to kill me, but I'm having too much fun!") Marty's worked 28 states and two provinces. This summer, he's worked Montana, Florida, Arkansas, Oklahoma, Maine, the outer bank islands of North Carolina, New Hampshire, Texas, Louisiana, Mississippi, Georgia, West Virginia, New Jersey, Illinois, South Carolina, Virginia, Colorado, New York, Maryland, Rhode Island, Massachusetts, Manitoba, Quebec and Ohio. "Six meters

is just a lot of fun. For those of us in the Technician class, if this type of DXing doesn't encourage you to upgrade, nothing ever will," he says. "For the amount of money I have invested, it's actually cheaper than a good quality 2m handheld."

"It seems to me that the openings have been of a lot shorter duration this year than last," Marty said. "For example, last year there were a number of them that ran late, past 11 o'clock at night. I have not experienced any like that his year."

Joe, N9JR, worked into British Columbia and Washington State in late May from his Wauwatosa QTH using a FT-736R (10w) to a 3-element Cushcraft at 50 feet. "The main thing about this summer was the lack of three-hop propagation, particularly towards Europe."

Chuck, W9UB, in New Berlin worked Utah, Colorado, Maine, and "many, many Boston area stations" over the Fourth of July weekend with his 100w Icom 706 and a dipole up only 15 feet.

Over the space of three weeks, Buck, K9RYW, worked Florida, Wyoming, Montana, and North Dakota with his Icom 729 (125w with an amp) and 4-element Telrex yagi up 35 feet in northern Brookfield.

MRAC member Ron, KA9JCP, used a TR-9000, Ten Tec transverter, 60W amplifier and halo up 60 feet to work New England, southern Florida, Saskatchewan and Montana during July from his West Allis QTH.

Rich, KB9KYS, worked Alabama, Georgia and a Maritime Mobile station off the coast of Galveston, Texas with his 17W FT-690 Mark 11 and 3 element Cushcraft yagi up 15 feet on the south side of Milwaukee.

Ike, N9LZS, racked up 6m QSOs with Florida, New England, Colorado, Saskatchewan, Wyoming, and Ontario in July with 100W from an Icom 706 and a 4 element Cushcraft beam up 50 feet on the north side of Milwaukee.

Rick, WB9GYT, worked the usual selection of states and provinces during July: Maine, Oklahoma, Maryland, Utah, Nova Scotia, Michigan, Quebec, North Carolina,

Massachusetts, Georgia, Florida, and New Mexico. All contacts were made on SSB or CW with between 10 and 100W from a Kenwood TS-60 to a chimney-mounted square loop up about 35 feet. "Switching from a ground plane to that square loop has certainly made ground-wave SSB work a lot easier," said Rick, who is located on the south side of Milwaukee. During June, WB9GYT made contacts with stations in Texas, Kansas, Oklahoma, Maine, Massachusetts, Quebec, Rhode Island, Vermont, New Hampshire, Connecticut, New York, New Jersey, Colorado, Wyoming, Ontario, Minnesota, Michigan, Manitoba, Montana, South Dakota, North Carolina, South Carolina, Georgia, Florida, and Tennessee. Rick noted that many of those stations were running low-power rigs (like the new MFJ transceiver) or transverters (like the \$99 kit from Ten Tec) to simple antennas like dipoles and square loops at low elevations.

On the FM side of Six, Mark, N9LBN, of Milwaukee worked New Mexico, Ontario, and stations in the 1st, 2nd, and 3rd call districts on FM simplex using the 18w output from a Kenwood TS-680 to a vertical dipole up 30 feet. Over in South Milwaukee, Jeff, N9OFB, has worked "all along the Eastern seaboard" from New England to Florida, plus into Quebec and Texas - all on FM simplex this summer using 50W from a Kenwood TS-690 to a Comet ground plane up 40 feet and an ETO amp that started out life as a hospital NM unit. "I remember working a guy in a trailer in Colorado who was running 5w from a Mocom 10 with a mag mount on this trailer. He was full scale here."

Editor's note: The Milwaukee area 6M SSB net meets on Monday, Tuesday, and Thursday evenings at 9 on 50.160 MHz. For a good introduction to Six, consider "Six Meters: A Guide to the Magic Band" by Ken Neubeck, WB2AMU. It's available for \$14 (postpaid) from Worldradio Books, Box 189490, Sacramento CA 95818.

This story reprinted by permission from Hamateur Chatter, the newsletter of the Milwaukee Radio Amateurs Club.

From the Editor

Your editor, like perhaps too many of us, is often cynical about politics and politicians. Sometimes that cynicism is probably justified. Too often, our democratic system of government seems as democratic as the former Soviet Union. But once in a while, things happen which restore, at least temporarily, our faith in those who govern us.

When people of good will differ on politics and issues, it requires hard work to arrive at a solution to a perceived problem, a solution which is a compromise. I guess that is what "checks and balances" means.

In addition to hard work, it takes people who will listen to those who speak - give and take. That's diplomacy in action; diplomacy may not give those on one side or another of an issue everything everyone on each side wanted, but usually an acceptable compromise is reached.

Politicians are oft noted for another trait, and it can be one of the very worst: absolute, dig-in-your-heels inflexibility. That is when the system fails and simply doesn't work. No solutions, corrections, or even compromises are possible. I note here that not all politicians are like that; I doubt the percentage is more than 20%.

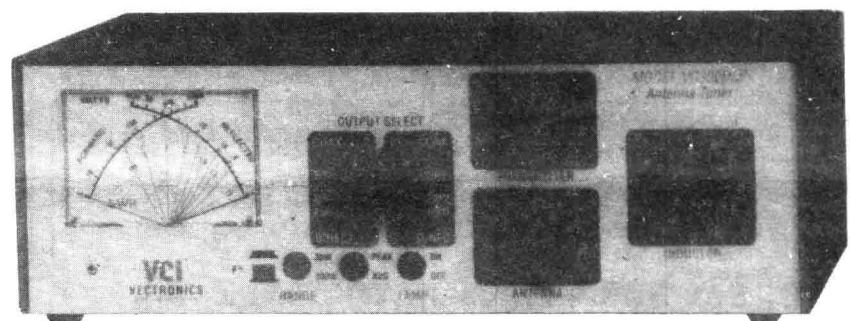
All of the above philosophizing leads to this. At a recent community function in Milwaukee, Rick Kissell, WB9GYT, had the opportunity to speak with Milwaukee Mayor John Norquist about the new tower law which is in violation of the provisions of the Doctrine of Federal Pre-Emption, PRB-1, with regard to Amateur Radio antenna towers. Rick tells us that Mayor Norquist indicated to him that the amateur exemption should have been part of the new Milwaukee tower law, which does not exempt amateurs and which takes effect November 1.

Mayor Norquist, although we can't confirm any possibility of a compromise or simply putting the exemption into the new law (it would require a successful trip through the common council and the mayor's signature), apparently has been giving the matter some thought, and may change his position on the exemption. For that, we commend the mayor highly. In these days of being politically correct, it isn't considered "cool" for a political figure to change his or her mind on an issue. If we understand all of this correctly, we have a rarity in Milwaukee, a mayor who can be flexible when necessary. A mayor who may not be afraid to be un-"PC", and to do what is right. We hope sincerely that in coming to this conclusion that we are right, and that the tower situation will have an outcome that is satisfactory to all concerned.

THE VECTRONICS VC-300DLP ... 300 WATT ANTENNA TUNER

- Multi48™ Inductor
- Cross-Needle Meter
- 8 Position Antenna Switch
- Built-in Dummy Load
- 1.8 to 30 MHz Coverage

VC-300DLP
\$159⁹⁵



The VECTRONICS VC-300DLP is the world's most versatile 300 Watt antenna tuner!

You'll get everything you've ever wanted ... precise inductance control that rivals roller inductors ... the ability to match any real antenna ... full 1.8-30 MHz coverage ... peak reading backlit Cross-Needle Meter ... 8 position antenna switch ... built-in 50 Ohm dummy load ... finest components available and world class quality.

Precise Inductance Control
VECTRONICS' exclusive Multi48™ inductor gives you forty-eight inductance values -- you'll get precision tuning that rivals the most expensive roller inductors.

Tune any antenna 1.8-30 MHz
You can tune any real antenna from 1.8 to

30 MHz, including all MARS and WARC bands. Use verticals, dipoles, inverted vees, yagis, quads, long-wires, whips, G5RVs, etc.

Has 4:1 balun for balanced line antennas.
Handles up to 300 Watts SSB PEP, 200 Watts continuous (150 Watts on 1.8 MHz).

Peak Reading Cross-Needle Meter
The VC-300DLP backlit Cross-Needle meter displays SWR, forward and reflected power simultaneously. Reads both peak and average power on 30/300 Watt scales. Meter lamp has front panel switch and uses 12 VDC or 110 VAC with AC-12 adaptor, \$12.95.

Versatile Antenna Switch
The VC-300DLP eight position antenna switch lets you select two coax fed antennas, random wire/balanced line or built-in dummy load for use through your tuner or direct to your transceiver. Bypass position bypasses your tuner but keeps your SWR Power meter in line.

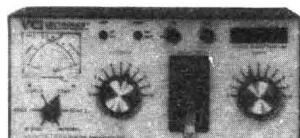
Built-in Dummy Load
A built-in 50 Ohm dummy load makes tuning up your rig easy! Use it for testing and repairing your rig, setting power level, adjusting your mic gain and more.

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The finest components available and the highest quality construction gives you the best 300 Watt antenna tuner that you can buy. A chemically treated aluminum case with durable baked-on paint and scratch-proof multi-color Lexan front panel looks great for years of dependable service.

Try any product for 30 days
Call toll-free 800-363-2922 and order any product from VECTRONICS. Try it for 30 days. If you're not completely satisfied return it for a full refund, less shipping and handling -- no hassles. All VECTRONICS products come with a one year warranty.

2 kW Antenna Tuner

HFT-1500
\$459⁹⁵



You can tune any real antenna from 1.8 to 30 MHz for absolute minimum SWR.

The HFT-1500 is crafted of the finest components available ... two heavy duty 4.5 kV transmitting variable capacitors and a high current roller inductor with a precision 5 digit gear driven turns counter. Gives you arc-free operation up to 2 kW PEP SSB.

Has backlit, peak-reading Cross-Needle SWR/Power meter, SSB*Analyzer Bar-graph™, 6 position ceramic antenna switch, 4:1 Ruthroff balun for balanced line. Scratch proof Lexan front panel. 5.5x12.5x12 inches.

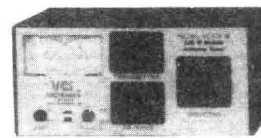
1500 Watt dry Dummy Load

DL-650M, \$64.95. Handles 100 Watts continuous, 1500 Watts for 10 seconds to 650 MHz. Ceramic resistor. SWR < 1.3. SO-239 Connector. **DL-650MN, \$69.95** has N Connector.



300 Watt Mobile Tuner

VC-300M
\$109⁹⁵



The VC-300M Mobile Antenna Tuner is compact, lightweight, easy-to-operate and is our most economical tuner.

It's compatible with any mobile antenna and any mobile HF transceiver and is compact enough to fit in the most compact car.

It can also be used at home with dipoles, vees, verticals, beams or quads fed by coax.

Backlit dual movement meter simultaneously monitors Power and SWR. Covers 1.8-30 MHz. Handles 300 Watts SSB PEP, 200 Watts continuous, (150 Watts on 1.8 MHz.). 7.25x8.75x3.6 inches. Weighs 3.4 lbs.



Low Pass TVI Filter

LP-30, \$69.95. Eliminates TVI by attenuating harmonics at the source. Plugs between transmitter and antenna or tuner. Handles 1500 Watts.

SWR/Power Meters

PM-30
\$79⁹⁵
PM-30UV
\$89⁹⁵



PM-30, \$79.95, for 1.8 to 60 MHz. Displays forward and reflected power and SWR simultaneously on dual movement Cross-Needle Meter. True shielded directional coupler assures accuracy. Backlit meter displays peak or average power in 300/3000 Watt ranges. First-rate construction includes scratch-proof case/front panel. 5.3x5.75x3.5 inches. SO-239 connectors. **For 144/220/440 MHz, 30/300 Watt ranges:** PM-30UV, \$89.95, has SO-239 connectors. PM-30UVN, \$89.95, has N connectors. PM-30UVB, \$89.95, has BNC connectors.

High Pass TVI Filter

HPF-2, \$24.95. Installs between VCR/TV and cable TV or antenna lead-in cable. Eliminates or reduces interference caused by nearby HF transmitters.



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PARTICIPATING CLUBS AND ORGANIZATIONS

Riverland Amateur Radio Club



Dan Abts, N9PZC
Secretary

Club mail address: P. O. Box 621
Onalaska WI 54650

<http://www.lse.fullfeed.com/~rarc/counties.html>



MEETING MINUTES September 2, 1997

The September meeting of the Riverland Amateur Radio Club was called to order at 7:01 p.m. on September 2, 1997 by President Duane W9HWQ. There were 18 members in attendance. The minutes of the August meeting were accepted as printed in the *Badger State Smoke Signals*.

Roger, KA9BKK, reported that we did quite well on the Chicken Q. We have 73 members. The report was accepted as read.

Programs: The program for this meeting was a video tape from the ARRL on antennas.

444.475 Repeater: The repeater has been sent in for repair. We should have a cost estimate around the middle of September.

Net Manager: Pete, N9XVG, said the net is going well.

ARES/Skywarn: Tom, WB9BJQ, said that the people at the National Weather Service want to thank the spotters for their help during recent severe weather.

Property Manager: Bob, N9LZK, had nothing new to report.

146.97 Repeater: Walt, AA9AW, said the repeater is working.

Field Day: Nothing new.

VE: Roger, KA9BKK, said that tests are scheduled for September 27 and November 22. They run from 7:00 p.m. to 9:00 p.m. at the Onalaska Community Center, 515 Quincy Street.

Old Business

There was some discussion concerning lightning protection for our repeater sites. This will be brought up again at a future meeting after more information is gathered.

New Business:

None.

A motion was made at 7:33 p.m. by Bob, N9LZK, to adjourn the meeting. The motion was seconded by Walt, AA9AW, and passed.

Respectfully submitted:
Dan,
N9PZC

Wisconsin Valley Radio Association

Kim Kunze, N9SDL, Secretary

P.O. Box 363 • Wausau, WI 54402

Six Meter Repeater: 51.19 Input/52.89 Output

MEETING MINUTES September 2, 1997

The meeting was called to order by Jim, N9SDI. Members present were N9SDL, KB9DZG, KB9FRB, K9QM, W9VHA, N9NMH, KB9DED, N9PHC, KB9OUC, N9LIA, KA9DQD, N9IAB, N9SDI, KB9MCZ and N9TTA. The minutes from last month's meeting were approved by members and motion by N9LIA and 2nd by KB9DZG. Treasurer's report was approved after a motion by N9TTA and 2nd by N9LIA.

Old business included the discussion of the 6 meter repeater project and how it is a project that will get more attention as individuals' time frees up more over the fall and winter seasons.

ARRL affiliation forms will be in the mail indicating at least a 51 percent ARRL club membership.

Technician class ham classes began August 25 with an organizational meeting and classes starting Sept 8th for 12 weeks at NTC. Currently have eight eager students.

The WVRA will be providing communications for the Gear Grinder Bike Races at the Nine Mile Recreational Facility on Sept 7th.

JOTA will be the 3rd weekend of October.

The 146.64 W9SM repeater has been confirmed as being coordinated and all is well. Paperwork just got behind.

New business included discussion regarding a couple of winter projects. One of our Christmas projects will be collecting gift items for the residents of the North Central Health Care Facilities and delivering them after the December club meeting. Item suggestions: Personal items, toiletries, playing cards, board games, books etc.

Mike, KB9DED, will head up a committee interested in providing a float for

the Wausau Christmas Parade.

The WVRA Board suggested that the auction not be conducted this year due to lack of interest. This was supported by a motion from N9SDL, 2nd by N9LIA, and approved by members present.

Dick, KA9DQD, suggested that new members be contacted ASAP upon becoming members and be provided with a basic information pack including repeater codes and functions. Dick offered to help in the "Welcoming."

It was also suggested that the temporary club meeting location be regularly announced on the local nets as well as a voice message on the repeater DVR. The location is at Wausau Metals across the parking lot from the National Guard Armory on the corner of 17th Ave and Sherman Street in Wausau. Meeting time is 7:30.

It was also suggested that the club P.O. Box of 363, Wausau WI 54402-363 be announced on the Wednesday night net so people know where to send their correspondence.

A motion by KB9DED and 2nd by N9NMH to order a dozen magnetic signs for the club. The motion passed. Anyone interested can purchase for \$7.00. This is in anticipation of the upcoming Halloween Patrol. N9IAB will purchase the signs and take to Riverside for printing.

The program for October will be a demonstration of AEA Log for Windows software, an electronic log book.

The meeting was adjourned after a motion from N9LIA and 2nd from N9TTA.

N9IAB provided the program after the meeting demonstrating Amateur TV with a setup in the meeting room. It was enjoyed by all.

Respectfully submitted:
Kim Kunze, N9SDL

Wisconsin Nets Association Ltd.

Art Evans, KA9KLZ, Acting Secretary
213 N. Jefferson • Cuba City WI 53807-1558

WISCONSIN NETS

Net	WNA	Freq.	UTC	CDT	Manager
BWN	Yes	3985	1100	0600	W9RCW
BEN	Yes	3985	1700	1200	KE9VU
WSBN	Yes	3985	2230	1730	K9UTQ
WNN	Yes	3723	2300	1800	N9MXW
WSSN	Yes	3645	2330	1830	N9BDL
WIN/E	Yes	3662	0000	1900	WB9ICH
WIN/L	Yes	3662	0300	2200	W9UW
NWTN	Yes	34/94	2330	1830	NS9Q

(Rhinelander area)

RCRA	No	01/61 (Mondays CST)	2330	1830	KA9OMC
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(Menomonie Area)

Gr. Bay	No	72/12 (Green Bay Area)	0145	2045	WB9NRK
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ARES	No	4.65/5.25 (South East/South Central Wisconsin)	0100	2000	
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RACES	No	3993.5 (LSB Sunday)	1300	0800	WA9OAY
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MEETING REPORT Wisconsin Rapids, Wisconsin August 24, 1997

WNA Chairman Carl Plotz, WB9JSW, called the meeting to order at 1802Z, August 24, 1997. The following members and guests were present: KA9BAC, KA9BAE, N9BDL, KA9BHK, WB9BRF, K9DHR, K9FHI, N9FWG, W9IHW+XYL, K9JPS+XYL, WB9JSW, K9KJM, KA9KLZ, KB9KVD, KB9LUS, KB9LYM, KF9QA, W9RCW+XYL, N9UAR and K9UTQ.

The chairman called for the approval of the minutes of the previous meeting. A motion was made and seconded (K9JPS/K9UTQ) to approve the minutes as published. Motion carried.

The chairman then called for the treasurer's report. WNA Treasurer N9UAR submitted the following report:

Balance on hand 6/8/97	\$281.95
Income since last meeting	00.00
Expense since last meeting	8.84
Balance on hand 8/24/97	\$273.11

Expense was postage and copying for June minutes.

ARRL OFFICIALS REPORTS

SECTION MANAGER (SM) K9FHI remarked that alternate NCS stations are needed on the nets to ensure that there is a net every day. Roy also stated that net control and liaison stations are needed on Day 9RN. Roy said that one of the OO stations resigned and a replacement is needed.

SECTION TRAFFIC MANAGER (STM) KA9KLZ reported that the nets are going fairly well. The Novice net is now running smoothly under the guidance of N/M KA9GBG. Art stated that he has not received a net report from the WSBN for the past two months. The WSBN N/M said he would get the reports in.

SECTION EMERGENCY COORDINATOR (SEC) WB9SMM was not present.

BULLETIN MANAGER (BM) WB9NRK was not present.

NET MANAGER REPORTS

BADGER WEATHER NET (3985 at 6:00 a.m.): N/M W9RCW reported that he took over as N/M in May and since then the net has averaged 57 check-ins and 69 messages in May, 48/62 in June, 46/54 in July, and 42/54 so far in August. Net morale is good. Rick stated that the epitome of an amateur is helping others and Gus, W9IHW, is an outstanding example of that. A big tip of the hat to Gus!!

Rick said he is trying to increase net participation and was open to suggestions. AA9BB is a new net control. Rick said that the BWN has the greatest people and

is the best net in the state.

BADGER EMERGENCY NET (3985 at noon): N/M KE9VU was not present.

BEN: Delegate KA9KLZ reported the net is doing well with around 20 check-ins and 3-4 pieces of traffic. Most of the NCS slots are filled but more 9RN reps are needed.

WISCONSIN SIDEBAND NET (3985 at 5:30 p.m.): N/M K9UTQ reported that there is a problem with the net control stations not picking up the net. Gene said that the NCS should get someone to replace him if he can't make the net. Gene reported that NCS slots are filled from Monday to Friday but needs Saturday and Sunday NCS's. The net is averaging 18 check-ins and 3-4 messages.

WISCONSIN NOVICE NET (WNN, 3723 at 6:00 p.m.): N/M KA9GBG was not present. N9BDL reported that the novice net is doing well with a net almost every day. Lee reported that the N/M, KA9GBG, is the only novice who checks into the net.

WISCONSIN SLOW SPEED NET (3645 at 6:30 p.m.): N/M N9BDL reported that the net is doing well with 6-7 check-ins and a little less than a piece of traffic per day. Lee reports that he has two NCS's with over 15 years experience. A tip of the hat to AG9G and KY9P. Lee said that WSSN is a training net. CW speed will be adjusted the speed of the check-ins.

WISCONSIN INTERSTATE NET/-EARLY (3662 at 7:00 p.m.): N/M WB9ICH was not present. N9BDL reported that the net is doing well but there has been lots of static to contend with.

WISCONSIN INTERSTATE NET/-LATE (3662 at 10:00 p.m.): N/M W9UW was not present but he sent a report via e-mail. Ron reported that the net is doing fine and traffic is up a little but not much. Nets are averaging 6 check-ins and 1 or 2 pieces of traffic. Ron reported that the net is well represented at both region and section level. Ron is also working on a roster and net certificates.

NORTH WOODS TRAFFIC NET (146.94 Rhinelander at 6:30 p.m.): N/M NS9Q was not present. N9BDL reported that there are problems with NWTN. The repeater coverage is down because the repeater lost its spot on the tower and the repeater is now at WB9YPY's house. Check-ins are only averaging 3 to 4 per net and traffic is averaging a little over 1 per net. Starting in September, Mary is suspending the net until November. She will start the net up again on Nov. 1 and see if there is any interest in the net.

OLD BUSINESS

There was no old business brought before the membership.

Continued on page 11

Wisconsin Nets Association Ltd.

Continued from page 10

NEW BUSINESS

The Chairman announced that the election of officers for the upcoming year was at hand. Carl called for nominations for officers. N9BDL nominated WB9JSW for Chairman. N9UAR seconded the nomination. W9RCW nominated N9UAR for Treasurer, seconded by N9BDL. K9JPS nominated KA9KLZ for Secretary, seconded by W9RCW. N9BDL moved and N9UAR seconded, that nominations be closed and as there is no opposition to any position, the nominees be elected by acclamation. Motion carried and the nominees were declared elected.

N9UAR raised the question of how we can get new people involved with the Wisconsin nets? After some discussion, KA9BAE suggested sending Public Relations people to local clubs. K9UTQ re-

marked that he held training sessions and ran training articles in BSSS a few years ago. Perhaps he could do this again. WB9JSW suggested having net managers and net controls talk this up on the nets. KA9BAE remarked that there should be questions about traffic handling on the amateur exams. After much discussion, the Chairman appointed a committee (N9UAR, KA9BAE, K9UTQ) to seek ways of promoting interest in the Wisconsin nets.

KA9KLZ raised the point of having a WNA web page. There was much discussion on this subject with the consensus being that it was a good idea.

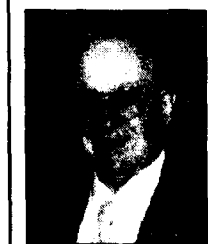
Art also said that the WNA manual needed some revision to keep it up to date. Art said he would talk to W9CBE and see if Hale would assist him to update the manual.

With no further business at hand, the Chairman called for a motion to adjourn. A motion was made and seconded to adjourn. Motion carried and the meeting was adjourned at 2:09 p.m., August 24, 1997.

Respectfully Submitted,
Art Evans, KA9KLZ, WNA Secretary

Notes From the Section Manager

Roy Pedersen, K9FHI • 510 Park Street
Juneau, WI 53039



The nets in Wisconsin needs more net control stations. Come on fellows, help would be appreciated, it's fun, enjoy your hobby, it's also a public service.

NF9V has a new son. CW op? Congratulations.

KJ9I has DX packet cluster on 220 MHz, he also went to Colorado to help AA0BH put large Mosley yagi antenna together.

The winners of the WARAC memorial scholarships for 1997 are Steven D. Miller, KB9DFE, of Spooner, Christopher D. Molek, KB9GTK, of Richland Center, and Amy L. Tlachac, N9TLN, of Wisconsin Rapids. Congratulations to all.

Are your antennas in good shape for the coming winter season?

There will be a bike-a-thon for MS next August 8-9, 1998, from Waukesha to Whitewater to Beaver Dam, more details later.

Yellow Thunder swapfest for 1998 is August 8, mark your calendars for this

event.

Some ARRL appointments are due for renewal, drop me a radiogram for renewal.

Sorry to report the following Silent Keys: K9LJM and K9TL.

Glad to see the Baraboo repeater back in operation. Congratulations to all who helped in any way.

WNA picnic was held August 24 in Wisconsin Rapids, weather was good, lots of company and a real nice park, it will probably be held there next year, but where were you? We missed you; please plan to attend next year!

CWRA swapfest next year Sunday June 7, 1998 at Junction City Village Park, nice place. There will be a WNA meeting and other meetings also.

I hope everyone has nice holidays coming up, enjoy them with you family. Thought for the Day: *Have faith in what you believe and don't give up on the future.*

Mancorad Radio Club

Dave Shemchak, KB9KQA,
Secretary

P.O. Box 204 • Manitowoc, WI
54221-0204



2-Meter Repeater: 146.01 Input/146.61 Output

MEETING MINUTES September 10th, 1997

The September meeting of the ManCoRad Radio Club was brought to order at 1930 hrs.

Red, N9GHE, made a motion to accept the Minutes from the July Meeting, as published in the *Badger State Smoke Signals*. The motion was seconded by Ken, K9HAG.

Janice, N9IQZ, thanked Fred, W6BSF, for taking care of the July Meeting for her - especially on such short notice!

The Treasurer's report as read by Glenn, AA9MT, was accepted. The motion was made by Swanee, N9QFY, and seconded by Gene, KB9KXF.

Old Business

ManCoRad 50th Anniversary items are still available. Items are: mousepad, cap, mug, stein. Get in touch with Clancy, K9WIX. Items will be available until the end of the year.

Swanee, N9QFY, volunteered to head up a group to fix the Club's R7 HF antenna. Fred, W6BSF, has volunteered to help. If you don't have a lot of experience dealing with antennas, this would be a good time to learn! Contact Swanee for more information.

Fred, W6BSF, gave a report on the Sub Event, held on August 16th. We had

6 operators, including a retired Navy man, Jim, WG1L, from Maine. 113 contacts were made on 20M, and 21 contacts were made on 40M. Of the 134 total contacts, approximately 60 QSO cards have been received. Next year, we would like to pick a day that is devoid of QSO parties and we would also like to design a certificate to send out in place of the Submarine postcard.

Anybody interested in R.A.C.E.S. should contact Clancy, K9WIX.

Glenn, AA9MT, headed up a group that was charged with making recommendations on the Club's annual Hamfest. Everything was considered, from where and when to have it, to whether it is economically feasible to have a Hamfest. The groups' recommendations were placed before the members, the members discussed the recommendations, and decisions were made. The first decision made was whether or not to have a Hamfest. Motion to continue to have a Hamfest was made by Red, N9GHE, and the motion was seconded by Ron, WS9X. Different locations were looked at to hold the Hamfest, ranging from Branch Firefighters Park to the local Malls. The current location, at the Expo Grounds, is the best in terms of price and capacity. Motion made to continue to hold the Hamfest at the Expo by Red, N9GHE, and seconded by Glenn,



E.C.A.R.C.
eau CLAIRE
amateur RADIO CLUB

Carl Searing, W9NW, Secretary
P.O. Box 1867 • Eau Claire, WI 54702-1867
<http://www.edp.net/~mceraso/ECARC.html>

The meeting opened with Vice-President Bert Spangler, W9ZZI, introducing Dr. Paul Thomas, Associate Professor of Physics and Astronomy at UWEC. His topic was, basically, "The Sun". Utilizing both overhead and computer-operated projectors, he proceeded to give an excellent overview of solar knowledge, and the current status of solar studies.

His presentation was very well given,

and equally well received. His infectious enthusiasm resulted in the program literally taking over the meeting, as, after almost two hours of program, including his fielding of many questions, it was decided to delay any formal business meeting until October.

W9NW,
Secretary

The Racine Megacycle Club

Club Station W9UDU • Racine, WI
ARRL Affiliated
Providing Communications for American Red Cross and ARES

Mary Urban, N9ZWE, Secretary
c/o RMC • P. O. Box 3 • Racine, WI 53401-0003



MEETING MINUTES September 8, 1997

President Rob Madson, KF9ZT, called the meeting to order at 7:32 PM. Everyone in attendance identified themselves.

Those in attendance were:

Rob	KF9ZT, President
Ken	N9WHR, Vice President
Dave	AA9HL, Treasurer
Lee	N9VNU, Activities
Mary	N9ZWE, Secretary
Bill	KB9PUD
Michael	KB9JXX
Alan	N9ZWJ
Chuck	KB9JIH
Harold	KB9LXM
Steve	K9ZL
Gene	WB9ZKY
Dave	KB9MML
Arne	KA9ZPY
Robin	KB9RCH
Richard	N9EWD
Vern	KC3XL
Dave	WB9USI
Bob	W9EH
Don	KB9HAM
Larry	WA9JMO

The first order of business was Rob, KF9ZT, introduced a visitor, Vern, KC3ZL. He is visiting the area for a few days and is the emergency coordinator in Chester County, Pennsylvania.

Treasurer Dave, AA9HL, gave the treasurer's report. It was accepted as read.

Secretary Mary, N9ZWE, gave her report. She is looking for Field Day logs, pictures, documents, membership lists, etc., for the club history. She is willing to make copies of the documents.

Richard Regent, K9GDF, sent a copy of a W99W award certificate that he received on October 24, 1962, and a little explanation as to what was involved in earning one of these.

Mention was made of the Scanner Bills HR 1964 and HR 2369. The House Rep to contact is Mark Newman. She was in contact with his Eastern District Director and he requested written documentation specifying the downside of these two bills. She has phone numbers to contact him and the Senators and the phone number of the House Document Room.

W9EH corrected a statement made in the August Minutes regarding the fact that a 501(c)(3) tax status is necessary in order to invest club funds, without complications, in higher interest bearing funds. This is not a true statement. As long as the club has a tax ID number, the club can invest its money anywhere it wants. Treasurer Dave, AA9HL, will look into other investments. Arne, KA9ZPY, suggested different types of accounts to look into.

Rob, KF9ZT, discussed the 1998 Swapfest (no longer "ham" due to the fact that someone called for information about a ham dinner). He handed out copies of the new flyer for the AMATEUR RADIO AND COMPUTER SHOW and requested that someone take them to the Grays Lake swapfest. This is still a preliminary copy

and Mary, N9ZWE, did find that there is an exit number for Hwy K, so the exit numbers can be put on the map. (NOTE: the committee has had two meetings to date) Hwy K is exit 329 and Hwy 20 is exit 333.

Rob, KF9ZT, reminded everyone of the Amateur Radio Electronics offer. If members save their receipts for the club, the club receives a 1% credit on the year's total receipt value. He also suggested we discuss giving up the GOODY BOX. We could replace it with something of value. Ken, N9WHR, said it is a tradition, and Mary, N9ZWE, suggested he be the last winner of it and keep it. Different items mentioned as possible prizes were coffee cups, an HT or money. Different ideas were tossed around. We will continue the Goody Box until a decision is made.

Rob, KF9ZT, asked for volunteers for a nominating committee, made up of non-board members, for November's elections. They are to give a list of nominees to Mary, N9ZWE. She suggested that the committee call all club members personally and ask if they would like to run or want to nominate someone. This way everyone would have input into the elections. Mike, KB9JXX, Pete, KB9LXM, and Chuck, KB9JIH, were picked with Pete as chairman. Due to obligations and a busy schedule Activities Director Lee, N9VNU, Vice President Ken, N9WHR, and President Rob, KF9ZT, will not be running.

Ken and Rob would like to be more active in other aspects of club activities. The administrative side takes a lot of time. Rob would also like to get back to operating. The nominating committee can't nominate themselves, but they can be nominated. It was suggested that the board members resigning be the nominating committee, but that was not accepted. Nominations can be taken from the floor at the elections. This committee is also in charge of running the elections at the November meeting.

Dave, WB9USI, said the Racine Fire Department took custody of a new command post vehicle and would like amateurs to provide radio equipment for this vehicle. We could just put an antennae in it and operators could use their own equipment. We have equipment in the police department command force. It was questioned why they were not using their grant money for this equipment. It was stated that the money was being used for other purposes. No decision was made.

KB9LXM asked if there was any report on the meeting of the Building Committee that was selected at the last Lakeshore Repeater Meeting. Rob, KF9ZT, Ken, N9WHR, Bob, W9EH, and Larry, WA9JMO, are part of this committee. The Chairman Bob W9EH stated that 6 of them met August 27 at Reflections and went over an agenda that was prepared by Larry WA9JMO. They were not able to cover the entire agenda but essentially agreed that the project was feasible and should go forward with it. Their next activity will be to put together a structure

Racine Megacycle Club

Continued from page 11

for it. Now the organization is working under the operating name of Amateur Radio Building Committee with Bob, W9EH, as Chair, and Rob, KF9ZT, as Secretary. They will also be getting ideas from everyone as to where this building should be and how we should go about this. A lot of ideas were kicked around about where it should be, what it would be made available for, who could participate in it, what it should look like, what it should contain, and more. They will be having another meeting later this month.

Also on this committee are Rees, K9UUT, and Ray, K9RI. They invited an attorney that Ray knows but he did not show up. They want advice on how to structure and pursue a tax exempt status. The area they are interested in would be east of I-94, north of Hwy 142 in Kenosha, South of Hwy 11 and west of Green Bay Road. If it is close to the interstate they think they could attract people from Milwaukee and Northern Illinois to participate in this plan. Financing will be one of the big hurdles and they talked about establishing a foundation or an endowment, something where the money could sit and earn interest and the revenue from the investment could be used to operate this facility. Trying to refund it and come up with operating revenue each year would not last long. They are open to suggestions.

Arne, KA9ZPY, had not been aware until the previous Saturday that this building plan had gone from a Megacycle Club endeavor to an independent building that all the clubs can use. They thought this idea would not be as acceptable or work as well with the other organizations under the management of the Megacycle Club. There were representatives from all the amateur radio organizations on this committee. At this time the group is small, making it easier to discuss the plans. In the future everyone will be invited to participate. They are not doing anything secretly. They have looked at an old fire station of Hwy 142.

It was asked what activity we will have in place of the December meeting. Some suggestions were the Trolley Ride or a pizza party. The board is to come up with some ideas before the October meeting.

The Radio Command post was used

over the weekend for a scouting outing in the inner city. It was run by police department explorer scouts who were also ham radio operators.

Rob, KF9ZT, gave an update on how the sale of computer equipment of the estate of Bruce, K9RRS, went over the weekend. There is still equipment available and there will be another sale next Sunday at KA9OIL's house.

Steve, K9ZL, has some coax and wire if anyone wants it.

Robin, KB9RCH, announced that Pete KB9LXM's uncle passed away over the Labor Day Weekend.

Rob, KF9ZT, had a radio trivia question. Due to the fact the Amateur Radio Cruise was coming up, under what country the people on ship would run their equipment. According to the rules if the ship is beyond the 12 mile limit of the territorial waters, the country the surface of the ship is registered to determines the rules that are followed and the rules of your license and the reciprocal license. You identify yourself however, this country says you have to. The FCC recommends /MM. That is the designation of international waters. Much discussion followed on this issue. See the rule books for clarification.

Larry, WA9JMO, suggested that swapfest tickets be printed and distributed as prizes at the Grays Lake swapfest. There is not enough time to accomplish this.

The meeting was closed at 8:26 PM.

This month's "SCREAMING" winner of the GOODY BOX was Robin, KB9RCH.

Club membership for this month is 68, the 1996 Membership was 65.

Following the meeting, SHOW AND TELL was held. Lee, N9VNU, had an assortment of radio tubes which he picked up at a rummage sale and Mike KB9JXX had a 40M 4 1/2W CW Transceiver which he built from a Ten-Tec kit. It took him 12 hours to build and said it was a very good learning experience to understand how the internals of a radio work.

Due to the fact that I was having tape recorder problems during the meeting everyone's voices sounded like the same cartoon character and the tape was stopping during recording. Any corrections can be made in the next minutes.

May 26, 1949 - Permit No. 59 was granted to George Porter by the Board of Park Commissioners of Racine to set up radio equipment at Zoo Park on June 5, 1949, all day.

The next membership meeting is October 13 at the Red Cross Building.

Quarter Century Wireless Association Southeastern Wisconsin Chapter 162

Larry McCalvy, WA9JMO
5400 Six Mile Road
Radne, WI 53402



On Sunday, the 19th of October, Chapter 162 will host our Annual Meeting at L-J's Courtyard Cafe, 8300 Washington Avenue in Racine (formerly Ensenada's) beginning at 1 p.m. The restaurant's bountiful buffet should enlighten our palate as we enjoy its "casual and upbeat atmosphere".

Following the meal, our nominating committee, Al Algiers, W9HR, Herb Ladwig, W9PHJ, Steve Bellgraph, K9ZL and maybe Chuck Knotek, W9GKM, (I'm not sure if our president selected Chuck to the committee) will present the names of six candidates for the three Director positions now held by Ken Knoff, N9NBC, Bob Jensen, W0WLN, and Fern Fisher, W9LCJ, that expire with this meeting.

After the election, our three new directors will join with the other four to select our new president, vice-president and secretary/treasurer.

Reports on member activities have been sparse! Bill Komistra, W9OVZ, is busy on the ladder scraping and painting. Bill has not joined us during the weekly net lately; I do not know if is having more fun on the ladder than we are on the net or if he is just too tired to talk.

Skokie Bill Hawes, W9ERG, and a few Ham buddies traveled to the Findlay, Ohio Hamfest last month and reported to have had a wonderful time.

Our weekly net is often visited with words of wisdom as Spencer Clope, W9LDH, searches for and shares life's meanings in a silly interpretation utilizing the American vocabulary.

I will be looking for more member information. If it is not to be found, I shall just make up a bunch of lies and report them as factual in future articles!!!

73, Larry McCalvy, WA9JMO

ManCoRad Radio Club

Continued from page 11

AA9MT. A discussion was held about moving the date of the Hamfest to August 1st as opposed to Mother's Day weekend in May. A motion was made by Glenn, AA9MT, and seconded by Janice, N9IQZ, to continue to hold the Hamfest in May.

New Business

John, NZ9Z, proposed a moment of silence in Memory of Hubert Willis, W9TQV, a Charter Member of the ManCoRad Club, who became a Silent Key on September 8th, 1997. A flower arrangement will be sent by the Club.

Janice, N9IQZ, will be appointing the Nominating Committee for the November officers election at the October meeting. Clancy's motion to retain the current officers is denied!

Mary, KB9GOY, volunteered to check into accommodations for the annual Christmas Party.

During our Sub Event, the Director of the Museum expressed a desire to have the original radios aboard the USS Cobia restored to working order. He wondered whether the Club would be interested in working on these radios and restoring them. Red, N9GHE, volunteered to head the group.

There will be a T-Hunt held on Sunday, September 21st, starting at 10:30

a.m. Contact Ron, WS9X for more information.

A reminder, Greys Lake Swapfest will be held on September 27th and 28th. The Minnesota Hamfest and Computer Expo will be held on October 25th, at the St. Paul Civic Center.

A motion was made by Swanee, N9QFY, and seconded by Red, N9GHE, to adjourn the Meeting.

The September Meeting of the ManCoRad Club was adjourned at 2015 hrs.

Once again, thanks to Patti, KB9NNX, for standing in for me at the Meeting!

Submitted for Approval

David P. Shemchak, KB9KQA, Secretary

Meeting Attendance

Glenn	AA9MT
Janice	N9IQZ
Patti	KB9NNX
Gene	KB9KXF
Theresa	KB9KXB
Mary	KB9GOY
Ron	WS9X
Bob	KB9INK
Dick	N9QFY
Ken	K9HAG
Clancy	K9WIX
Paul	N9QFX
Chuck	N9WUN
Red	N9GHE
Bill	K9DUX
Fred	W6BSF
Tom	KB9IJR
John	NZ9Z
Don	KB9NTL



SHEBOYGAN County Amateur Radio Club

Mike Musiel, KF9SJ, Secretary
N9001 Dairyland Dr., Cleveland WI 53015

There was no formal meeting of the SCARC in September. In continuation of a tradition started two years ago, the SCARC held its annual cookout at the Pines Club in Sheboygan on Tuesday September 16th. The SCARC would like to thank Steve, AA9SJ, and his wife for keeping things running smoothly, Jim, WA9SNU, and Ruthann, WB9ORO, for cooking the food, and the Pines Club for providing the facilities.

The next meeting of the SCARC will be on Tuesday, October 14th, at 7 p.m. at the Red Cross Building in Sheboygan. All are welcome to attend.

Net Schedules

7 PM Monday Nights, SCARC Fun Net,

147.06 PL 107.2, +.

Traders Net - Following the Monday night net on the first Monday of the month.

6:30 PM Thursday Nights, ARES Net, 147.255 PL 127.3, + 444.175 PL 107.2 +.

We are happy to announce the return of the 10 net on 28.350 USB. This net has traditionally met at 7:30 p.m., following the Monday night 2-meter net. The 10 meter net may be moving to another night and time. Tune into the Monday night 2 meter net for further announcements.

Respectfully submitted:
Michael J. Musiel, KF9SJ

Gate 3 call signs being issued

Continued from front page

A few, like West Gulf Director Jim Haynie, just shortened the prefix. Haynie went from WB5JBP to W5JBP. Others went for one appropriate for their QTH. Teriann Miner of Palmer, Alaska, turned in her lower-48 call sign, KG00Y, for KL7AT.

The Iowa DX and Contest Club got WI0WA.

In all, it appears that the FCC received more than 1000 vanity call sign applications on August 6. Because earlier gates remain open, it's impossible to get an

accurate count of applications filed solely under Gate 3, however. The FCC still has not indicated when it plans to open Gate 4, which will make the vanity call sign program available to General, Tech Plus, Technician and Novice licensees.

The ARRL Letter, 9/19/97

Got a story to share with our readers? Send it, with photos if you got 'em, to the editor. The address is on page 2.

Taylor County Area Amateur Radio Club

Tom Hrdina, N9GEN, President

2373 Willow Avenue • Medford WI 54451

MEETING ANNOUNCEMENT

The next regular meeting will be held on Thursday, October 2nd at 7 p.m. in the Emergency Government meeting room located in the basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Sts., Medford, WI. Talk-in on the 147.15 Medford repeater (+600 kHz) or 146.52 MHz simplex.

MEETING PROGRAM

Following the October club meeting, the program will cover Units 3 and 4 of the textbook for the "Hazardous Materials: A Citizen's Orientation" course that is being taken by several members of the club and area hams. However, those who have NOT enrolled in the course are still welcome to sit in on the sessions. This will take approximately 30 minutes to complete. All tests are open book and are done as a group. The course is intended to provide a general introduction to hazardous materials.

CLARK/TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE (ARES) NEWS

Mike Schoenfuss, N9GHZ
ARES Emergency Coordinator

• Don't forget to try to check into the weekly ARES net held Wednesdays at 8:30 p.m. on the Medford repeater (147.75/147.15). If the repeater is down or not functioning properly, alternate frequencies, in order, are 147.15 MHz simplex and 146.52 MHz simplex. You're also encouraged to volunteer for net control duty for the net.

• Here are some important dates for 1997 to keep in mind, as they may likely generate requests for ARES communications based on previous years:

December 6 - 26th Annual Abbotsford Christmas Parade, downtown Abbotsford

Mark your calendars now, so that you can keep some, or all, of these dates open.

• A Taylor County Simulated Disaster

Continued on page 13

GIVE A SUB TO BSSS FOR
CHRISTMAS THIS YEAR!

Taylor County Area Amateur Radio Club

Continued from page 12

Exercise Design Team meeting was held the evening of Sept. 8th at the fire dept. hall in Rib Lake, Wis. Amateur Radio operators in attendance at this meeting, representing Taylor County ARES, were KA9WDX and Taylor County Emergency Government Coordinator N9UBQ. In addition to ARES and Taylor County Emergency Government, other agencies with representatives present at this meeting included State of Wis. Division of Emergency Management, American Red Cross, Rib Lake Fire Dept., and Rib Lake EMTs/First Responders.

Another disaster exercise planning meeting is scheduled for Monday, October 27th at 7 PM at the Rib Lake Fire Dept. hall. The design team would again like to have an ARES member/Amateur Radio operator present at that meeting. Plans call for eventually holding a "functional exercise" at which actual test messages will be passed back and forth among the various agencies involved, and the messages will be responded to and acted upon. The team's plans call for having eight (8) ham radio operators with 2-meter handhelds available at the functional exercise, to actually pass the messages back and forth for them.

I am pleased to announce that Scott Klueckmann, N9VZG, of Neillsville, has recently accepted the appointment of Assistant Emergency Coordinator for the Clark County Amateur Radio Emergency Service, and will assist me in representing the ARES in the southern part of the county.

A request has been received, and accepted, from the Medford Kiwanis Club, to provide ARES radio communications for the J.A. O'Leary Memorial Bicycle Race and Tour planned for August 15, 1998. The race course is approximately 45 miles round trip, will start at the Medford City Park, proceed out to the Mondeaux Flowage area in the Chequamegon National Forest, and return to Medford City Park. It will start at 10 AM and take approx. 2-3 hours to complete. This race/tour will

be affiliated with WisSport and approx. 200-300 participants are expected.

OTHER NEWS

The next scheduled meeting of the Black River Wireless Assn.(BRWA) is Thursday, 11/13/97. The meeting starts at 7:15 PM, is open to all area Amateur Radio operators, and will be held at the American Legion Hall in Loyal, Wis.

The Black River Wireless Assn., at its September 11th meeting, agreed to sponsor and operate an Amateur Radio exhibit at Abbottsford's Red Arrow Park on July 4, 1998, in conjunction with Abbottsford's Independence Day activities. This was by invitation of the Abbottsford Fire Dept., which oversees the 4th of July festivities in Abbottsford.

At the September meeting of the Taylor County Area Amateur Radio Club, it was reported that there have been recent incidences of malicious interference and unauthorized communications through the 147.15 Medford repeater. All Taylor County area hams, and others monitoring that repeater, are asked to record the following information for each incidence they encounter in the future, and to forward such information to N9GHZ:

- The date of the occurrence.
- The time at which it starts and ends.
- A brief description of the contents of the communication (i.e. was foul language used, touch tones heard, etc.).
- Any distinctive features of the voice (i.e. male or female, younger or older, accent, distorted/off frequency, etc.).
- Check the repeater input signal, if possible. Indicate whether or not you can hear the transmission on the repeater input. If you can, give a signal report as best you can. If you have an S-meter, give that reading. If you are on a beam antenna, attempt to get a heading.
- If possible, attempt to make an audio tape recording of the transmission(s). Be sure to mark the tape with the date and time of the recording(s), or add that information yourself directly onto the tape at the end of each recording. □

Red Cedar Repeater Association, Inc.

Steve Hart, KA9OMC, Secretary

E616 810th Avenue

Knapp, WI 54749

2-Meter Repeater: 146.01 Input/146.61 Output

Greetings, RCRA sponsors and guests.

N9LRV, Gerald at Menomonie, will be attending the Governor's Conference on Emergency Preparedness at the end of the month at Stevens Point. All the best to Gerry at his upcoming wedding.

N9NPE, Steve, is moving his place of employment in North Menomonie and wishes it would quit raining so that the construction can continue. Steve expects to open this fall.

KB9MMT, Jeff, reports that the Web page for RCRA will be having a facelift, as he has obtained a scanner and expects to place the cartoon picture of a tower that appears on our information flyers on the Web.

WB0OKQ, Lyle at Star Prairie, will be returning to his position as electrician. Lyle also brought us some equipment donations for the auction.

KG9CT, Chuck at Spring Valley, returned from the "Gold Wing" gathering out west and decided to cycle down south. Chuck has also obtained a new keyer and expects to get back in the shack after his many miles of travel.

KB9LUK, James from Eau Galle, recently helped KB9NIR, Scott at Cedar Falls, finish erecting the two top sections of his tower. Scott also received some help from W9NW, Carl's gin pole, which, after all its travels, deserves a ham license of its own.

N9PPE, Jeff from Bloomer, recently attended a fly-in at Mondovi. Jeff enjoys radio control flying.

N0PDD, Bob at Winona, Minnesota, checks into the regular Monday net and reports the blue gills are biting and a

sauger or two. We are proud to have Bob as our sponsor from Minnesota and, like many of our sponsors, Bob gladly helps several other clubs.

KB0LYL, Art at Red Wing, Minnesota, checks into the Monday net. Art invites all to work him on the 147.300 repeater at Red Wing.

AA9GB, Cary, and KA9ZDQ, Brian, were a couple calls heard in addition to about two dozen amateurs who helped conduct communications for the annual TinMan Triathlon in Menomonie.

KE9VA, Rolin from Boyceville, and sons Spencer and Thornton, were a part of the recent Rustic Lore Days Parade in Glenwood City. Thornton and Spencer were performing in the Boyceville High School Marching Band and Rolin was representing the Glenwood City Lions Club.

WB9YMB, Jim, and wife Marion, from Menomonie, recently visited son Doug, WB7TYH, and family in Idaho.

N9ZFY, Everett at Durand, injured his leg this summer, but is recovering. Everett has decided to invite the RCRA to put its Durand remote receiver at his home. Work should start this fall.

W0LUY, Ernie at Haugen, reports that WCFW at Chippewa Falls has moved up the dial to 105.7 MHz, and has added a simulator to help cover downtown.

The next gathering of RCRA will be the social hour is scheduled for October 28 at the Peppermill Restaurant in the L-Mart shopping complex at 1414 9th Street, Menomonie, at 7:30 p.m. Welcome, all! □



Washington County Amateur Radio Club

Tom Waldschmidt, N9LZW,
Secretary

465 Elder Lane
Allenton, WI 53002-9799



Club Repeater: 146.73 MHz

<http://www.nconnect.net/~WCARC>

MEETING MINUTES September 11, 1997

The September 11, 1997 meeting of the Washington County Amateur Radio Club was called to order at 7:58 P.M. by president Gary Sutcliffe, W9XT. There were ten members attending.

The minutes of the August meeting were read by secretary Tom, N9LZW. There was a correction by Kevin, N9LTH, who said he had not assisted with communications at the Cedar Lake Cycling Classic Road Race as reported. There was a motion by Bill, N9IBU, seconded by Don, K9GR, to approve the minutes as amended. Motion carried.

The treasurer's report was read by treasurer Dave, KA9RNU. There was a motion by Sherm, W9NGT, seconded by Kevin, N9LTH, to accept the treasurer's report. Motion carried.

ARES

Walt, N9LLS, said that he was planning a meeting with CAP representatives to plan a scenario for a SET exercise.

Repeater

Repeater Committee Chairman Don, K9GR, said that he has done some study of our duplexer. He has learned that it is a Phelps Dodge brand and possibly designed for 157 Mhz with a 300 Khz offset. More study of the duplexer is planned.

There was some discussion about some interference that has been affecting the repeater recently. Don asked members to record the times that this interference is heard and to try to identify the source. Kevin, N9LTH, and Tom, N9LZW, said the interference appeared to be paging tones. Both thought the problem had not been present for the last couple of days.

Program Committee

Jim, KB9LTW, said he has been talking with NCONNECT a Slinger Internet provider about putting on a program for the club.

Food Committee

The club breakfast next Saturday is scheduled for the Mineshaft in Hartford.

OLD BUSINESS

Club Banner

Walt, N9LLS, said that he has researched the cost of a club banner. A banner could run about \$64 to \$77.00 depending on the size which could range from 2 ft x 4 ft to 2 ft x 6 ft. We will have to provide a camera-ready design. Don, said he has a computer file with the club's logo that Walt can use.

Tower Legislation

Kevin, N9LTH, said that he attended

a recent meeting of the Slinger Village Board. He said that the members agreed to add a clause to specifically exempt Amateur Radio operators from the proposed ordinance.

Secretary, Tom, N9LZW, read a letter received from the Washington County Emergency Government Director, Jim Pamperin, in which he expresses his belief that emergency service providers including Amateur Radio operators should be exempted from these ordinances.

A copy of the Emergency Government Director's letter along with a letter from the Washington County ARC will be sent to any Washington County governmental bodies considering this ordinance upon the request of affected club members.

Gary, W9XT, urged members to remain aware of ordinance proposals in their own villages and townships that may adversely affect Amateur Radio operations.

There was a motion by Don, K9GR, seconded by Kevin, N9LTH, to adjourn the meeting. Motion carried and meeting adjourned at 8:45 P.M.

Respectfully submitted:
Tom, N9LZW, Secretary

Civil Air Patrol Visits Club

Two members of the West Bend Civil Air Patrol brought their Communications Vehicle to the September meeting of the Washington County Amateur Radio Club.

Colonel Dan Ritchie, K9BAL, and Chris Fochser, N9WIN, showed off the CAP's new 'Comm Post' prior to the club's meeting. Col. Ritchie joked that we should not confuse the name of the vehicle with 'compost'.

The vehicle, formerly a motor home, has been remodeled to provide a console for both HF and VHF radio communications, including packet. There is also a cellular telephone and facilities for a land-line telephone link using duplex radios.

There is one computer for packet radio and a second which is used for multiple purposes including weather observation. A map area becomes useful for search and rescue operations.

An aluminum crank up tower mounted on the roof of the vehicle has a Ringo 2 meter antenna mounted on it for maximum range. For HF operations, the Comm Post has a whip antenna that can be used in either a vertical or horizontal polarization. They use an SGC Smartuner for HF antenna tuning.

CLUB CALENDAR

Oct 02	7:30 P.M. Net, 146.730
Oct 04	9:00 A.M. Breakfast, Jimmy's in Jackson
Oct 09	7:00 P.M. ARES Meeting, Courthouse, West Bend
Oct 09	7:30 P.M. Club Meeting, Courthouse, West Bend
Oct 11	9:00 A.M. Breakfast, Mineshaft in Hartford
Oct 16	7:30 P.M. Net, 146.730
Oct 18	9:00 A.M. Breakfast, Slinger Inn in Slinger
Oct 23	7:30 P.M. Net, 146.730
Oct 25	9:00 A.M. Breakfast, Woodsview in West Bend

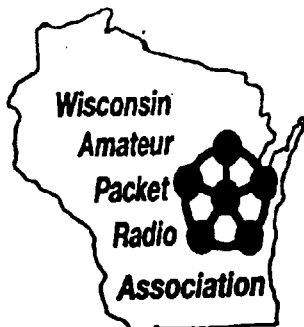
FCC SEQUENTIAL CALLSIGN UPDATE

The following is a list of FCC sequentially assigned call signs issued as of September 5, 1997.

Dist	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AB0GC	KI0JT	++	KC0BXJ
1	AA1SP	KE1II	N1ZRK	KB1CEY
2	AB2EB	KG2ML	++	KC2CIU
3	AA3QB	KF3AH	N3ZVJ	KB3BUX
4	AF4FF	KU4KG	++	KF4TVD
5	AC5NS	KM5LY	++	KD5CDL
6	AD6CX	KQ6RM	++	KF6NMB
7	AB7WH	KK7JP	++	KC7ZCT
8	AB8BC	KI8DO	++	KC8ILA
9	AA9UW	KG9LF	++	KB9RJE
N Mariana Is	NH0UB	AH0AY	KH0GT	WH0ABI
Guam	++	AH2DE	KH2SI	WH2ANU
Hawaii	AH7V	AH6PD	KH7GC	WH6DEH
Amer Samoa	AH8P	AH8AH	KH8DK	WH8ABF
Alaska	AL0F	AL7QU	KL0KG	WL7CUM
Virgin Is	++	KP2CM	NP2JR	WP2AII
Puerto Rico	NP3M	KP3BC	NP3QM	WP4NNL

+ + All call signs in this group have been issued in this district. - The ARRL Letter, 9/5/97

To learn how your club can become a participating club in BSSS, including reduced subscription rates, latch onto Ken Ebneter, K9EN, 822 Wauona Tr, Portage WI 53901. kebneter@palacenet.net



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association
 Bob Gedemer, KA9JAC
 609 Wilson Street • Neenah, WI 54956

Andy Nemec, KB9ALN, Editor • 720 N. Broadway (Upper West) • Green Bay, WI 54303

WAPR News - October, 1997

Greetings, fellow packeteers. Once again, we are looking at the rapid advance of fall and eventually winter. Hope you have checked your station out and are ready for the ravages of Old Man Winter.

Al, KB9BYQ in Appleton has been very active lately improving the Appleton node stack. Al plans to install a new 58 foot tower at his house, which should improve connectability to this busy hub in the northeastern part of the state. By the time you read this, the Black Creek node should be back in business after a power amplifier replacement.

The big news now is the meeting to take place in Ashwaubenon (next to Green Bay) on October 11th. This is a Saturday, and the meeting will take place at 10:00 A.M. The meeting site is the Ashwaubenon High school, 2391 Ridge Road, the site of our last meeting in Ashwaubenon. Talk-in can be found on the 147.075 repeater, + offset, P.L. (CTCSS) of 107.2 Hz.

After the meeting and a lunch break, I will be holding a TCP/IP seminar. This has been planned for quite some time, and should provide you with a good amount of information on the subject. We will talk about TCP/IP and how it relates to amateur radio, how a typical station is set up, and what it is capable of. If you want to know more about TCP/IP, this is your opportunity to do just that.

Even if you are not interested in this, you will find plenty of reason to attend the meeting. Catch up on all the latest network news, and catch up with the friends you have made on packet. If you are unfamiliar with WAPR or even packet radio, by all means, try to attend.

The members of WAPR also would like to thank the Ashwaubenon High School Tech Club and the high school for the opportunity to use an excellent facility for our meeting.

That is about all for this month. Until next month, 73 from Andy.

Andy Nemec
 andy@hardware.cae.wisc.edu
 Amateur Radio: kb9aln.ampr.org

Using the Wisconsin Network - Part 32

by Andy Nemec, KB9ALN

In the last installment of this series, we took a look at packet radio and how it might relate to emergency communications. We noted that a well thought out system and a properly configured station can be most helpful when performing emergency work. In this installment, we will discuss how to determine if packet radio can be helpful to you, and what to do about it if you think it can be.

"Where do you want to go today?"

With apologies to the software folks in Washington, we can modify this question a bit to read "What do you want to do today?". Will you be trying to correct a communications deficiency, or are there any particular special needs you will be attempting to fill? In order to answer this question, you will have to rely on your past experience and by thinking your emergency communications plan through.

While we are trained to be prepared for any emergency, readiness for hurricanes in Wisconsin is a bit unnecessary. Your time as an emergency communicator should be devoted to preparing for and thinking about the kinds of emergencies you are more likely to encounter. Start by thinking about your local situation. Is there any industry in your county that deals with hazardous material? Are you near a major airport? Are there any environmental risks you may have to deal with, such as dams, nuclear power plants, or any other unique risks? All of these disaster scenarios can necessitate an evacuation, or worse yet, mass casualties. In these scenarios, packet can be a positive supplement to your other communications capability.

Packet radio is excellent for relaying large lists of evacuees to the Red Cross or other disaster management agencies, for example. Packet can also be used to transmit other long, involved instructions to and from field workers. It can also, when properly set up, allow one to access the internet for information on dealing with chemical spills or other hazardous material incidents. If you have a large quantity of hazardous materials being used or shipped through your county, you may find this capability interesting.

One seasonal threat we deal with in Wisconsin is severe weather of various kinds. If you often have trouble staffing a weather service office promptly, a packet station can help. Setting up a printer to print out storm data will certainly help meteorologists get data without trying to listen to a radio. In the winter time, snowfall amounts can be reported without making phone calls.

Do you routinely have a problem communicating with a particular part of your county, or with a particular place outside of your county? Packet can be a big help if a node is in place to relay your signal. We have found it very useful to communicate with the Wisconsin Division of Emergency Management via packet. Voice contact is marginal and inconsistent. There are enough network nodes to complete the circuit and communicate with Madison from Northeastern Wisconsin. There are nodes that we use to conference with stations not only from Madison, but from neighboring counties

as well. Speaking of conferencing, packet is particularly useful for this purpose. 4 to 6 stations can conference on a typical conference node, and this can be very helpful for coordinating activities with other agencies.

By this time (and with knowledge of your past experience), you should have a pretty good idea of where you might put packet radio to use. Now let's talk about implementing it. You can take this process step-by-step:

1) Test your idea with existing equipment before investing in the necessary equipment. If you know people with laptops computers and TNC's, go on-site and see how it actually works. Check paths and access to nodes and such.

2) Plan your system. Do you plan to have amateur radio access to the internet through a gateway station? Where would it be, who would control it? Obviously, most laptop computers we will be using will be older and less capable than newer units. If you plan on accessing large amounts of data on a frequent basis, perhaps your station at "headquarters" (the county E.O.C.) can be set up as a server. This would, of course, require software with expanded capability.

3) Select software. This is a function of what you need to do. There are many choices out there, but the rule of thumb is this: simplest is best, unless you have a definite need to complicate things. Field units should have relatively simple software that is easy to learn and use.

4) Once you have determined your plans you can start to acquire equipment. When possible, you should look for the highest-possible performance units. If you have access to a 9600 bps user LAN, and can get a radio capable of operating there with good performance, it would be wise to think carefully about investing in this equipment. Remember, you wish to keep this equipment around for a long time. At some point, 1200 bps will be more of a historical mode than a common operating speed. Many TNC's can be upgraded with a 9600 bps modem, consider this as an alternative. How easy is it to install? I highly recommend a TNC that is truly TNC-2 compatible. Alternate firmware for these TNC's is available from various sources, and plugs right in. In the event that someone creates fancy new firmware capable of something really neat, you will find it is much easier to use this new firmware in a Paccomm Tiny-2 than a Kantronics KPC-3. The Paccomm is truly TNC-s compatible. The KPC is not.

5) Provide for training. A lot of hams have not been exposed to packet radio, or tried it once many years ago. They may not be familiar with operating the equipment. Even if an operator can make the equipment play, they may not know how to get from point A to point B through the network. In addition to regular training, you should have a short "cheat sheet" to help jog the memory of an infrequent packet operator.

6) Once you have a system in place, designate a person to be in charge of the packet operations and maintenance. You will need someone to cycle the batteries in laptops, radios, and TNC's. This

person can also keep operating systems up-to-date, along with keeping any instructions current (like the "cheat sheet" mentioned above).

7) Use packet in your exercises just like any other communications system. You probably already know that people get better at doing something when they practice. Make it a point to keep people in practice.

In the next installment, we will look at the specifics of planning a system. Until then, 73 from Andy.

Andy Nemec
 andy@hardware.cae.wisc.edu
 Amateur Radio: kb9aln.ampr.org

THE TEST POINT

(continued from page 3)

\$6.25. For more information, please call Dick Lemme, K9FA, at (920) 235-0987, e-mail lemme@vbe.com, or write Dick at 826 Jefferson Street, Oshkosh, WI 54901.

EAU CLAIRE

The Eau Claire ARC will hold exam sessions on the second Saturday in the months of January, April, and October, as well as on the date of their annual hamfest during the summer. For further information contact: Carl F. Searing, W9NW, 1129 Mc Kinley Road, Eau Claire, WI 54703-2219. (715) 834-1303.

REDGRANITE, WI (W5YI VEC)

The Radio Amateurs of Wisconsin (RAW) will be holding test sessions at the Civic Center in Redgranite, 202 Pine River Road, one block from Highway 21. Registration at 8:45 a.m. with testing at 9:00 a.m. Bring two forms of identification, \$6.25 per test, two copies of all original documents, CSCE's, Licenses, etc. All are welcome for breakfast at the Curve Inn on Highway 21, preceding the exam session. For further information, contact: Mark Miller, N9WT, (920) 231-1662 or Sharon Gramza, N9YGN, (920) 566-2362.

MENOMONIE, WI

The Menomonee, WI VE team will conduct its 1997 exams on Saturday, Saturday, November 1, 1997. At U/W-Stout Communication Center, 820 South Broadway, Menomonee, WI. Walk-ins only, 9:00 a.m. to 11:00 a.m. Contact: Jim Ley, NX9F, (715) 232-1397 (W) or (715) 235-3998 (H).

WISCONSIN DELLS, WI

Wisconsin Dells City Hall, City Council Chambers. 10:00 a.m. to 2:00 p.m. Contact: K9WD, (608) 254-2895.

HUDSON, WI

Testing is held at the St. Croix County emergency government Center on Carmichael road in Hudson, WI.

WISCONSIN AMATEUR PACKET RADIO MEMBERSHIP APPLICATION

PLEASE PRINT

NAME: _____ CALL: _____ HOME PHONE: (____) _____

ADDRESS: _____ CITY: _____ STATE: _____ ZIP: _____

HOME BBS: _____ FREQ: _____ (Listing your home BBS is important)

Your HOME BBS should be a full service BBS, not your TNC's mailbox.

MY PACKET STATION OPERATES: _____ DAY _____ NIGHT _____ 24HRS

I OPERATE A: _____ DIGIPEATER WITH ALIAS OF: _____

_____ FULL SERVICE BBS

PRIMARY PACKET INTEREST/EXPERTISE IS: _____

_____ YES I want to receive Badger State Smoke Signals and I understand that part of my dues goes to pay this subscription, cost \$20.00

_____ NO I do not wish to receive Badger State Smoke Signals as a part of my WAPR membership. Cost \$15.00

COMPLETE and return this form with your check or money order - \$15.00 membership only or \$20.00 membership and Badger State Smoke Signals, made payable to W.A.P.R. (NOT payable to Bob Gedemer) to:

Bob Gedemer KA9JAC/WAPR
 609 Wilson St.

Registration begins at 8:00 a.m. and testing begins promptly at 9:00 a.m. Contact: Greg Miller, KB9JHL, 503 4th St., Hudson, WI 54016. (715) 386-9857.

MARSHFIELD, WI (ARRL/VEC)

Sponsored by the Marshfield Area ARS. Held at St. Joseph Hospital, 611 St. Joseph Ave., in the 1 West classroom located adjacent to the Westwood Cafeteria on the main floor of the hospital. Use the main entrance or any other entrance and follow the signs to the cafeteria. Registration starts at 8:30 a.m. with testing starting at 9:00 a.m. Talk in on the 147.18 Marshfield repeater. Walk-ins welcome. Contact: Walter Friant, WB0KIN, 2310 Wallonie Drive, Marshfield, WI 54449 (715) 387-3870.

SHEBOYGAN, WI

Wednesday dates: Registration 1830 hrs, testing 1900 hrs.
Saturday dates: Registration 0830 hrs, testing 0900 hrs.
Testing site is: Red Cross/Boy Scout Office Building (lower level), 2032 Erie Ave., Sheboygan, WI.
Test site has limited handicap accessibility. Walk-ins are OK but preregistration would be appreciated. Test fee is \$6.25. Make checks payable to SCARC VE Testing. All class tests administered. Contact: Art Pahr, K9XJ, (920) 876-2370. e-mail <k9xj@excel.net>

WISCONSIN DELLS, WI (W5YI-VEC)

American Legion Building, 609 Wisconsin Ave. 9:30 a.m. code, 10:30 a.m. written. Contact: K9WD, (608) 254-2895

PEWAUKEE, WI (ARRL/VEC)

Contact: Rodger Bradley, AA9OJ, (414) 691-3089.

ARLINGTON HEIGHTS, IL (ARRL/VEC)

Contact: Frank Stankiewicz, (847) 437-1464.

CEDARBURG, WI - ORC HAMFEST

EAU CLAIRE, WI - ECARC HAMFEST

GREEN BAY, WI - ARES HAMFEST

HAYWARD, WI - HAYWARD HAMFEST

KAUKAUNA, WI - SWAPFEST

MANITOWOC, WI - LAKESHORE HAMFEST

MARSHFIELD, WI - HAMFEST

OAK CREEK, WI - SMARC HAMFEST

RACINE, WI - RACINE HAMFEST

RHINELANDER, WI - NWARC SWAPFEST

ROCKFORD, IL - RARC HAMFEST

ROTHSCHILD, WI - WVRA HAMFEST

SOUTH MILWAUKEE, WI - SMARC HAMFEST

STEVENS POINT, WI - CWRA SWAPFEST

WAUKESHA, WI - KMRA SWAPFEST

WAUKESHA, WI - MIDWINTER SWAPFEST

DUBUQUE, IA - HAMFEST

See the Swapfest column for additional information and contact persons.

DUBUQUE, IA - ARRL/VEC

Dubuque Hamfest. Contact: Carl Clark, N0KAX, 2145 Delicia Drive, Dubuque, IA 52001. (319) 557-9149.

LOVE SPARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (W5YI VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL.



Yellow Thunder Amateur Radio Club

WB9FDZ (Original Club Call)
K9ODK (Robert L. Prine Memorial Call)

Raymond J. Matlosz, N9MLZ, Secretary
450 West 2nd Street • Reedsburg, WI 53959



The September 18, 1997 meeting of the Yellow Thunder Amateur Radio Club, Inc. was called to order at 7:40 p.m. by club president Steve Schulze, N9UDO. The August 13th minutes were approved as printed in BSSS. There was no treasurer's report.

Old Business: None.

New Business: Steve Schulze mentioned that their would be a county wide drill for emergency government Saturday, September 20. Nominations for club officers were discussed. Looks the same, although the club secretary did say, for the third straight year, this will be the last time. There was a question of Jim Decker running again and Steve will talk to him about his intentions of continuing as club treasurer. Joseph Rowland, N9PRF and Nathan Hill, KB9RFA applied for club membership. Both were approved by voice vote. meeting adjourned at 7:53 p.m. (yup, short business meeting). Afterwards, the members present discussed ATV needs in the area.

NEXT MEETING: Tuesday October 14, 1997 at 7:30 p.m. room 14,

Contact: Dennis G. Eksten, W9SS, (815) 877-6768.

MINNESOTA TEST INFORMATION

From "The Ground Wave", Saint Paul Radio Club.

Saint Paul Radio Club (SPRC)

Contact: Jay Bellows, K0QBE (612) 222-7253

Test Site: St. Paul Technical College

235 Marshall Ave.

St Paul, MN

TESTING: First Saturday of the month, 8:30 a.m.

Anoka Amateur Radio Club (AARC)

Contact: Joe Wivoda, N0AU, (612) 753-6481

Test Site: Blaine City Hall

9150 Central Ave NE

Blaine, MN

TESTING: Second Saturday of the month, 9:00 a.m.

Bloomington Office of Emergency Management

(Bloomington Amateur Radio Club (BARC))

Contact: Dan Royer, KE0OR (612) 888-9756

Test Site: Creekside Community Center

98th & Penn Avenue S

Bloomington, MN

TESTING: Fourth Saturday of the month, 9:00 a.m.

Valley Amateur Radio Club (VARC)

Contact: Bill Martin, KA0CIR (612) 432-0438

Baraboo Civic Center.

Sincerely,

Raymond J. Matlosz, N9MLZ
club secretary

The following members and non-members were present:

Joseph J. Rowland	N9PRF	Portage
Nathan Hill	KB9RFA	Portage
Leonard Wagner	N9XJG	Baraboo
Joe Mayenschein	WB9SBD	La Valle
Jim Paul	N9LKY	Baraboo
Brad Pointon		Baraboo
Dave Mullenix	N9LTD	Madison
Thomas Harrison	N9PQJ	Reedsburg
Kevin Kolpitzke	WB9YHB	Madison
Brad Kleemann	WB9WHI	Madison
Steve Schulze	N9UDO	Baraboo
Raymond Matlosz	N9MLZ	Reedsburg

Test Site: Hayes Community Center

14601 Hayes Road

Apple Valley, MN

TESTING: Second Thursday of the month 7:00 p.m.

W5YI

Contact: Dave Ranney, N0AXL (612) 571-7441

Test Site: Eden Prairie Library

479 Eden Prairie Drive

Eden Prairie, MN

TESTING: Third Tuesday of the month 6:30 p.m.

SE Metro Area Radio Club (SEMARC)

Contact: Dave Harrell, N0IPN (612) 459-8678

Test Site: Cottage Grove fire Station

8641 80th ST., S

Cottage Grove, MN TESTING: Third Saturday of the month, 9:00 a.m.

The above information has been furnished by the various VEs. However, it is suggested that you confirm time, date and location BEFORE you make the trip to the test site. Occasionally, a test may be canceled and/or dates and locations changed. A Phone call could save you some grief and a wasted trip.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.

If Dr Seuss wrote technical bookks for computers....

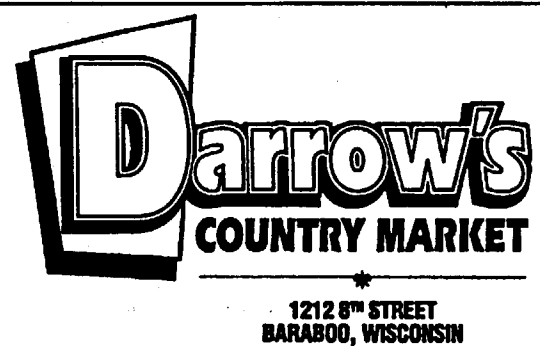
If a packet hits a pocket on a socket on a port,
and the bus is interrupted as a very last resort,
and the address of the memory makes your floppy disk abort,
then the socket packet pocket has an error to report.

If your cursor finds a menu item followed by a dash,
and the double-clicking icon puts your window in the trash,
and your data is corrupted 'cause the index doesn't hash,
then your situation's hopeless and your system's gonna crash!

If the label on the cable on the table at your house,
says the network is connected to the button on your mouse,
but your packets want to tunnel on another protocol,
that's repeatedly rejected by the printer down the hall,
and your screen is all distorted by the side effects of gauss,
so your icons in the window are as wavy as a souse,
then you may as well reboot and go out with a bang,
'cause as sure as I'm a poet, the sucker's gonna hang!

When the copy of your floppy's getting sloppy on the disk,
and the microcode instructions cause unnecessary risk,
then you have to flash your memory and you'll want to RAM your ROM.
Quickly turn off the computer and be sure to tell your mom.

Ray Reich, WDXY/WIBZ/WKHT Radio, Idea Bank



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Steven D. Miller, KB9DFE
Spooner, WI
Amy L. Tlachac, N9TLN
Wisconsin Rapids, WI

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SWAPFEST
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CENTER
WAUKESHA, WISCONSIN
SUNDAY
JANUARY 11, 1998

Both sponsored by:
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MADISON SWAPFEST
SUNDAY, APRIL 5, 1998
John Q. Hammons Trade Center
1313 John Q. Hammons Drive
Just west of intersection of Beltline and Greenway Blvd.
Sponsored by MARA/W9HSY
P. O. Box 8890 Madison, WI 53708-8890
Swapfest Information Line: (608) 245-8890

SOUTH MILWAUKEE AMATEUR RADIO CLUB
SWAPFEST 98
July 11, 1998
(Held every July)
American Legion Park
Shepard Avenue • Oak Creek, WI
(414) 762-3235 Extension 58
P. O. Box 102 South Milwaukee, WI 53172

Fox Cities Hamfest
Sunday, November 2, 1997
Starlite Club, Hwy. 55 north of Kaukana

HAMFEST INFO:
Chad Pennings, N9PRC
1912 Russett Ct., Apt. 7
Appleton, WI 54914
(920) 993-0485

EXAM INFO:
Larry Siebers, KD9IA
(414) 759-1167

Lakeshore Hamfest
and Computer Swapfest
Manitowoc County Expo
Intersection of Hwys. 42-151 and I-43 on Cty. Hwy. R
Saturday, May 9, 1998
For more information, call:
Glenn, AA9MT: 920-684-7096
Red, N9GHE: 920-684-9097
ManCoRad Radio Club • P.O. Box 204 • Manitowoc, WI 54221-0204

TRI-COUNTY ARC PRESENTS
HAMFEST 1998
YOUR SPRING FAVORITE!
Sunday, March 15, 1998
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TCARC • 213 Frederick Street 414-563-6381
Fort Atkinson, WI 53538 Evenings

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Information: Call, write, or email John Feltz, W9JN
973 E. 1st St., Junction City WI 54443-9614 • (715) 457-2506
E-MAIL: jfw9jn@tzn.net

Eau Claire Amateur Radio Club
SWAPFEST
Saturday, July 11, 1998
Eau Claire County Fairgrounds
Intersection of Highways 93 and I-94
Carol Ceraso • (715) 723-9205 Liz Searing • (715) 834-1303
P.O. Box 1867 • Eau Claire, WI 54702-1867
<http://www.ecarc.org>

RACINE HAMFEST 97
Sunday, July 27, 1997
8 A.M. - 2 P.M.
SOUTH HILLS COUNTRY CLUB I-94
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Between Highway 20 and Highway K
OUTDOOR AND INDOOR SALES
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Send to RMC, P.O. Box 3, Racine, WI 53401

Ozaukee Radio Club
20TH ANNUAL RADIO AND
COMPUTER SWAPFEST
Saturday, May 2, 1998
8 a.m. to 1 p.m. • Circle B Recreation Center
Intersection of Highway 60 and County I
Exams by Badger Examiners, c/o Gary Sharbuno,
5119 W. Willow Rd., Brown Deer, WI 53222
Swapfest sponsored by the Ozaukee Radio Club
W58 N985 Essex Drive, Cedarburg, WI 53012-1439

Adams County Amateur Radio Club
SPRING HAMFEST
Sunday, June 7, 1998
(NOTE DATE/YEAR CHANGE)
Adams County Fairgrounds
West of Hwy. 13 on Cty. J • Friendship, WI
Adams County Amateur Radio Club P. O. Box 232
Friendship, WI 53934 Nick Segina, WB9YKK, (608) 339-9014
Packet: N9TD-1 on 145.03

Red Cedar Repeater Association, Inc.
AUCTION
February 24, 1998 • 7:00 p.m.
American Legion Post 53 • 634 Water Street
Eau Claire, WI
CONTACT:
Steve Hart, KA9OMC 715-665-2374
E616 810th Ave. Knapp, WI 54749


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FAX (608) 831-1082

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